

## **Appendix 7-6**

### **Seep/Spring Inventory Data**

INCORPORATED

MAY 18 2007

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INTERMOUNTAIN POWER AGENCY  
SOUTH LEASE PROPERTY  
SEEP AND SPRING SURVEY  
May 24 -26, 1993

SEEP/SPRING NUMBER	pH (units)	COND. (umhos/cm)	FLOW RATE (gpm)	TEMP. (c)	USE/REMARKS
1	7.79	962	1.5	8	claystone, wildlife
1A	7.76	1061	.5	7	sandstone, wildlife
1B			seep		
2			dry		
3	8.07	1000	.5	10	sandstone, wildlife
3A	7.68	1085	1	9	sandstone, wildlife
3B	8.01	1080	1.5	11	shale, wildlife
4	7.94	1190	2	8	
5	7.52	1058	1	6	
6			dry		
7	7.78	879	.75	8	
8	7.85	1043	< .25	20	
8A	7.97	1020	1.5	7	
9	6.45	1000	< .25	9	
9(R)			2	10	sandstone, trough
10	7.90	1046	2	15	
11	8.19	3680	< .25	17	
12A	7.81	2070	.25	10	sandstone
12B	8.12	1760	.25	11	sandstone, shale
12C	8.24	1716	.5	7	limey shale
12D	7.96	4520	< .25	15	shale, limestone
13	7.88	1386	1	14	
13A	8.03	1934	< .25	14	
13B	8.06	2216	< .25	12	
13Z	7.84	1375	1	12	

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INTERMOUNTAIN POWER AGENCY  
SOUTH LEASE PROPERTY  
SEEP AND SPRING SURVEY  
May 24 -26, 1993

SEEP/SPRING NUMBER	pH (units)	COND. (umhos/cm)	FLOW RATE (gpm)	TEMP. (c)	USE/REMARKS
14	8.24	1650	1	19	
14A	8.06	1500	1	15	
15	7.68	1045	<.25	10	
15A	7.86	1060	<.25	17	sandstone, silt
15B	7.92	1009	<.25	17	limey sandstone, silt
15C			seep		sandstone, limestone
16A	8.08	1070	4	11	
16B	7.86	1000	.25	14	
16C			seep		shale
16Z			seep		
17	8.07	1520	<.25	17	shale, limey sandstone
17A	ns		1.5	17	shale, sandstone ledge
17B	ns		.75	16	shale, sandstone ledge
18	8.06	1300	1	17	shale, limey sandstone
19A	7.59	1124	.5	7	shale, limestone, wildlife
19B	7.61	1130	1.5	7	limestone, sandstone, wildlife
20	8.02	6000	<.25	10	shale, sandstone ledge
22			dry		

ns = Not Sampled

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INTERMOUNTAIN POWER AGENCY  
SOUTH LEASE PROPERTY  
SEEP AND SPRING SURVEY  
May 24 -26, 1993

SEEP/SPRING NUMBER	pH (units)	COND. (umhos/cm)	FLOW RATE (gpm)	TEMP. (c)	USE/REMARKS
1	7.79	962	1.5	8	claystone, wildlife
1A	7.76	1061	.5	7	sandstone, wildlife
1B			seep		
3	8.07	1000	.5	10	sandstone, wildlife
3A	7.68	1085	1	9	sandstone, wildlife
3B	8.01	1080	1.5	11	shale, wildlife
4	7.94	1190	2	8	
5	7.52	1058	1	6	
6			dry		
7	7.78	8.79	.75	8	
8 (J)	7.85	1043	<.25	20	
8A	7.97	1020	1.5	7	
9	6.45	1000	<.25	9	
9 (R)	TROUGH		2	10	sandstone, trough
10	7.90	1046	2	15	
11	8.19	3680	<.25	17	
12A	7.81	2070	.25	10	sandstone
12B	8.12	1760	.25	11	sandstone, shale
12C	8.24	1716	.5	7	limey shale
12D	7.96	4520	<.25	15	shale, limestone
13	7.88	1386	1	14	
13A	8.03	1934	<.25	14	
13B	8.06	2216	<.25	12	
13Z	7.84	1375	1	12	

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INTERMOUNTAIN POWER AGENCY  
SOUTH LEASE PROPERTY  
SEEP AND SPRING SURVEY  
May 24 -26, 1993

SEEP/SPRING NUMBER	pH (units)	COND. (umhos/cm)	FLOW RATE (gpm)	TEMP. (c)	USE/REMARKS
14			1	19	
14A	8.06	1500	1	15	
15	7.68	1045	<.25	10	
15A	7.86	1060	<.25	17	sandstone, silt
15B	7.92	1009	<.25	17	limey sandstone, silt
15C			seep		sandstone, limestone
16	<i>Trout</i>		1	10	
16A	8.08	1070	4	11	
16B	7.86	1000	.25	14	
16C			seep		shale
16Z			seep		
17	8.07	1520	<.25	17	shale, limey sandstone
17A	ns		1.5	17	shale, sandstone ledge
17B	ns		.75	16	shale, sandstone ledge
18	8.06	1300	1	17	shale, limey sandstone
19A	7.59	1124	.5	7	shale, limestone, wildlife
19B	7.61	1130	1.5	7	limestone, sandstone, wildlife
20	8.02	6000	<.25	10	shale, sandstone ledge
22			dry		

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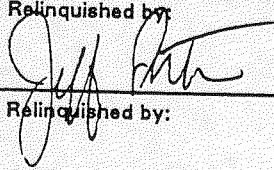
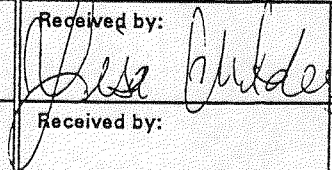


EARTHFAX ENGINEERING INC.  
7324 SOUTH 1300 EAST  
Midvale, Utah 84047

CHAIN-OF-CUSTODY FORM

Sampling Company: EarthFax Engineering	Sampling Personnel: RBG, JDG, JRP
Project Name: LA POWER SPRING SURVEY	Project Number: UC 284-04
Analytical Laboratory: Chemtech	Date of Shipment/Delivery:
Method of Shipment/Delivery:	Airbill Number:

Field Sample No.	Date Sampled	Time Sampled	Sample Type	No. of Containers	Remarks
16	5-25-93		H <sub>2</sub> O	3	
14	5-25-93		H <sub>2</sub> O	3	
10	5-25-93		H <sub>2</sub> O	3	
9	5-25-93		H <sub>2</sub> O	3	
1	5-25-93		H <sub>2</sub> O	3	

Relinquished by: 	Date: 5/27/93	Time: 1405	Received by: 	Date: 5/27/93	Time: 2:00
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

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EARTHFAX ENGINEERING, INC.  
7324 South 1300 East  
Midvale, Utah 84047

WATER SAMPLE ANALYSIS REQUEST FORM

Sampling Company: EarthFax Engineering, Inc.	Sampling Personnel: RBG, JDG, JRP
Project Name: LA POWER SPRING SURVEY	Project Number: UC 284-04
Field Sample Number: 16	Laboratory Sample Number: <del>16</del>
Date Sampled: 5-25-93	Time Sampled:
Analytical Laboratory: Chemtech	Date of Shipment/Delivery:

Container Type	Number of Bottles	Preservative(s)	Analyses Requested
plastic	3	ICE	attached

Special Requirements:
-----------------------

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EARTHFAX ENGINEERING, INC.  
7324 South 1300 East  
Midvale, Utah 84047

WATER SAMPLE ANALYSIS REQUEST FORM

Sampling Company: EarthFax Engineering, Inc.	Sampling Personnel: RBG, JDG, JRP
Project Name: LA POWER SPRING SURVEY	Project Number: UC 284-04
Field Sample Number: 1	Laboratory Sample Number: <del>2</del>
Date Sampled: 5-25-93	Time Sampled:
Analytical Laboratory: Chemtech	Date of Shipment/Delivery:

Container Type	Number of Bottles	Preservative(s)	Analyses Requested
plastic	3	ICE	attached

Special Requirements:
-----------------------

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EARTHFAX ENGINEERING, INC.  
7324 South 1300 East  
Midvale, Utah 84047

WATER SAMPLE ANALYSIS REQUEST FORM

Sampling Company: EarthFax Engineering, Inc.	Sampling Personnel: RBG, JDG, JRP
Project Name: LA POWER SPRING SURVEY	Project Number: UC 284-04
Field Sample Number: 9	Laboratory Sample Number: <del>5</del>
Date Sampled: 5-25-93	Time Sampled:
Analytical Laboratory: Chemtech	Date of Shipment/Delivery:

Container Type	Number of Bottles	Preservative(s)	Analyses Requested
plastic	3	ICE	attached

Special Requirements:

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EARTHFAX ENGINEERING, INC.  
7324 South 1300 East  
Midvale, Utah 84047

WATER SAMPLE ANALYSIS REQUEST FORM

Sampling Company: EarthFax Engineering, Inc.	Sampling Personnel: RBG, JDG, JRP
Project Name: LA POWER SPRING SURVEY	Project Number: UC 284-04
Field Sample Number: 10	Laboratory Sample Number: <del>10</del>
Date Sampled: 5-25-93	Time Sampled:
Analytical Laboratory: Chemtech	Date of Shipment/Delivery:

Container Type	Number of Bottles	Preservative(s)	Analyses Requested
Plastic	3	ICE	Attached

Special Requirements:

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EARTHFAX ENGINEERING, INC.  
7324 South 1300 East  
Midvale, Utah 84047

WATER SAMPLE ANALYSIS REQUEST FORM

Sampling Company: EarthFax Engineering, Inc.	Sampling Personnel: RBG, JDG, JRP
Project Name: LA POWER SPRING SURVEY	Project Number: UC 284-04
Field Sample Number: 14	Laboratory Sample Number: <del>14</del>
Date Sampled: 5-25-93	Time Sampled:
Analytical Laboratory: Chemtech	Date of Shipment/Delivery:

Container Type	Number of Bottles	Preservative(s)	Analyses Requested
Plastic	3	ICE	Attached

Special Requirements:

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# CHEMTECH

ANALYTICAL LABORATORY

6100 S. STRATLER  
MURRAY, UTAH 84107  
PHONE: (801) 262-7299  
FAX: (801) 262-7378

DATE: 7-01-93

TO: EarthFax Engineering  
7324 So. 1300 E. STE 100  
Midvale, Utah 84047

SAMPLE ID: Lab #U096139 - LA Power-Spring Survey, #16 @ 10:00, 6-04-93 <sup>16A</sup>

DATE SUBMITTED: 6-05-93

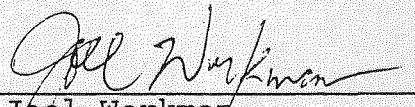
## CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	<u>DATE</u> <u>ANALYZED/METHOD</u>
TDS, mg/l	638	6-10-93 EPA 160.1
Hardness as CaCO <sub>3</sub> , mg/l	310	6-17-93 EPA 130.2
Bicarbonate as HCO <sub>3</sub> , mg/l	473	6-16-93 SM17 2320B
Carbonate as CO <sub>3</sub> , mg/l	10.5	6-16-93 SM17 2320B
Chloride as Cl, mg/l	19.0	6-07-93 EPA 325.3
Sulfate as SO <sub>4</sub> , mg/l	137	6-11-93 SM17 4500
Sulfide as S, mg/l	0.32	6-08-93 EPA 376.1
Phosphate as PO <sub>4</sub> -P, mg/l	<.01	6-14-93 SM17 4500
Nitrate as NO <sub>3</sub> -N, mg/l	<.02	6-28-93 EPA 353.1
Nitrite as NO <sub>2</sub> -N, mg/l	<.005	6-05-93 EPA 354.1
Ammonia as NH <sub>3</sub> -N, mg/l	<1	6-11-93 SM17 4500
Fluoride as F, mg/l	0.19	6-10-93 EPA 340.2
Aluminum as Al, mg/l	0.064	6-09-93 EPA 200.7
Arsenic as As, mg/l	<.04	6-09-93 EPA 200.7
Barium as Ba, mg/l	0.079	6-09-93 EPA 200.7
Boron as B, mg/l	0.093	6-09-93 EPA 200.7
Cadmium as Cd, mg/l	<.01	6-09-93 EPA 200.7
Calcium as Ca, mg/l	37.6	6-10-93 EPA 200.7
Chromium as Cr, mg/l	<.01	6-09-93 EPA 200.7
Copper as Cu, mg/l	<.01	6-09-93 EPA 200.7

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ANALYTICAL LABORATORY

6100 S. STRATLER  
MURRAY, UTAH 84107  
PHONE: (801) 262-7299  
FAX: (801) 262-7378

DATE: 7-01-93

TO: EarthFax Engineering  
7324 So. 1300 E. STE 100  
Midvale, Utah 84047

SAMPLE ID: Lab #U096138 - LA Power-Spring Survey, #14 @ 10:45, 6-04-93

DATE SUBMITTED: 6-05-93

## CERTIFICATE OF ANALYSIS

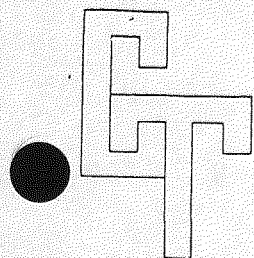
<u>PARAMETER</u>	<u>DETECTED</u>	<u>DATE</u> <u>ANALYZED/METHOD</u>
TDS, mg/l	1,614	6-10-93 EPA 160.1
Hardness as CaCO <sub>3</sub> , mg/l	647	6-17-93 EPA 130.2
Bicarbonate as HCO <sub>3</sub> , mg/l	568	6-16-93 SM17 2320B
Carbonate as CO <sub>3</sub> , mg/l	9.4	6-16-93 SM17 2320B
Chloride as Cl, mg/l	45.6	6-07-93 EPA 325.3
Sulfate as SO <sub>4</sub> , mg/l	756	6-11-93 SM17 4500
Sulfide as S, mg/l	<.1	6-08-93 EPA 376.1
Phosphate as PO <sub>4</sub> -P, mg/l	<.01	6-14-93 SM17 4500
Nitrate as NO <sub>3</sub> -N, mg/l	<.02	6-28-93 EPA 353.1
Nitrite as NO <sub>2</sub> -N, mg/l	<.005	6-05-93 EPA 354.1
Ammonia as NH <sub>3</sub> -N, mg/l	<1	6-11-93 SM17 4500
Fluoride as F, mg/l	0.26	6-10-93 EPA 340.2
Aluminum as Al, mg/l	0.037	6-09-93 EPA 200.7
Arsenic as As, mg/l	<.04	6-09-93 EPA 200.7
Barium as Ba, mg/l	0.022	6-09-93 EPA 200.7
Boron as B, mg/l	0.213	6-09-93 EPA 200.7
Cadmium as Cd, mg/l	<.01	6-09-93 EPA 200.7
Calcium as Ca, mg/l	60.2	6-10-93 EPA 200.7
Chromium as Cr, mg/l	<.01	6-09-93 EPA 200.7
Copper as Cu, mg/l	<.01	6-09-93 EPA 200.7

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# CHEMTECH

ANALYTICAL LABORATORY

6100 S. STRATLER  
MURRAY, UTAH 84107  
PHONE: (801) 262-7299  
FAX: (801) 262-7378

DATE: 7-01-93

TO: EarthFax Engineering  
7324 So. 1300 E. STE 100  
Midvale, Utah 84047

SAMPLE ID: Lab #U096138 - LA Power-Spring Survey, #14 @ 10:45, 6-04-93

DATE SUBMITTED: 6-05-93

## CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	<u>DATE</u> <u>ANALYZED/METHOD</u>
Iron as Fe, mg/l	0.070	6-09-93 EPA 200.7
Lead as Pb, mg/l	<.02	6-09-93 EPA 200.7
Magnesium as Mg, mg/l	104	6-10-93 EPA 200.7
Manganese as Mn, mg/l	<.01	6-09-93 EPA 200.7
Mercury as Hg, mg/l	<.0002	6-09-93 EPA 245.1
Molybdenum as Mo, mg/l	<.01	6-09-93 EPA 200.7
Nickel as Ni, mg/l	<.01	6-09-93 EPA 200.7
Potassium as K, mg/l	1.4	6-10-93 EPA 200.7
Selenium as Se, mg/l	<.04	6-09-93 EPA 200.7
Sodium as Na, mg/l	276	6-10-93 EPA 200.7
Zinc as Zn, mg/l	<.01	6-09-93 EPA 200.7

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ANALYTICAL LABORATORY

6100 S. STRATLER  
MURRAY, UTAH 84107  
PHONE: (801) 262-7299  
FAX: (801) 262-7378

DATE: 7-01-93

TO: EarthFax Engineering  
7324 So. 1300 E. STE 100  
Midvale, Utah 84047

SAMPLE ID: Lab #U096137 - LA Power-Spring Survey, #10 @ 10:00, 6-04-93  
DATE SUBMITTED: 6-05-93

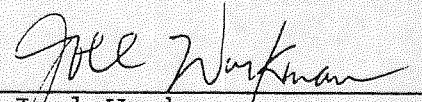
## CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	<u>DATE</u> <u>ANALYZED/METHOD</u>
TDS, mg/l	694	6-10-93 EPA 160.1
Hardness as CaCO <sub>3</sub> , mg/l	471	6-17-93 EPA 130.2
Bicarbonate as HCO <sub>3</sub> , mg/l	481	6-16-93 SM17 2320B
Carbonate as CO <sub>3</sub> , mg/l	<1	6-16-93 SM17 2320B
Chloride as Cl, mg/l	11.5	6-07-93 EPA 325.3
Sulfate as SO <sub>4</sub> , mg/l	202	6-11-93 SM17 4500
Sulfide as S, mg/l	<.1	6-08-93 EPA 376.1
Phosphate as PO <sub>4</sub> -P, mg/l	0.034	6-14-93 SM17 4500
Nitrate as NO <sub>3</sub> -N, mg/l	0.033	6-28-93 EPA 353.1
Nitrite as NO <sub>2</sub> -N, mg/l	<.005	6-05-93 EPA 354.1
Ammonia as NH <sub>3</sub> -N, mg/l	<1	6-11-93 SM17 4500
Fluoride as F, mg/l	0.18	6-10-93 EPA 340.2
Aluminum as Al, mg/l	0.051	6-09-93 EPA 200.7
Arsenic as As, mg/l	<.04	6-09-93 EPA 200.7
Barium as Ba, mg/l	0.069	6-09-93 EPA 200.7
Boron as B, mg/l	0.038	6-09-93 EPA 200.7
Cadmium as Cd, mg/l	<.01	6-09-93 EPA 200.7
Calcium as Ca, mg/l	68.9	6-10-93 EPA 200.7
Chromium as Cr, mg/l	<.01	6-09-93 EPA 200.7
Copper as Cu, mg/l	<.01	6-09-93 EPA 200.7

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Div. of Oil, Gas & Mining

  
Joel Workman



# CHEMTECH

ANALYTICAL LABORATORY

6100 S. STRATLER  
MURRAY, UTAH 84107  
PHONE: (801) 262-7299  
FAX: (801) 262-7378

DATE: 7-01-93

TO: EarthFax Engineering  
7324 So. 1300 E. STE 100  
Midvale, Utah 84047

SAMPLE ID: Lab #U096137 - LA Power-Spring Survey, #10 @ 10:00, 6-04-93

DATE SUBMITTED: 6-05-93

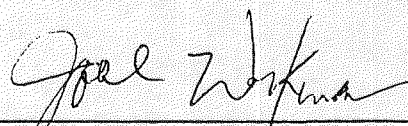
## CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	<u>DATE</u> <u>ANALYZED/METHOD</u>
Iron as Fe, mg/l	0.080	6-09-93 EPA 200.7
Lead as Pb, mg/l	<.02	6-09-93 EPA 200.7
Magnesium as Mg, mg/l	64.4	6-10-93 EPA 200.7
Manganese as Mn, mg/l	0.056	6-09-93 EPA 200.7
Mercury as Hg, mg/l	<.0002	6-09-93 EPA 245.1
Molybdenum as Mo, mg/l	<.01	6-09-93 EPA 200.7
Nickel as Ni, mg/l	<.01	6-09-93 EPA 200.7
Potassium as K, mg/l	1.5	6-10-93 EPA 200.7
Selenium as Se, mg/l	<.04	6-09-93 EPA 200.7
Sodium as Na, mg/l	63.4	6-10-93 EPA 200.7
Zinc as Zn, mg/l	<.01	6-09-93 EPA 200.7

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# CHEMTECH

ANALYTICAL LABORATORY

6100 S. STRATLER  
MURRAY, UTAH 84107  
PHONE: (801) 262-7299  
FAX: (801) 262-7378

DATE: 7-01-93

TO: EarthFax Engineering  
7324 So. 1300 E. STE 100  
Midvale, Utah 84047

SAMPLE ID: Lab #U096136 - LA Power-Spring Survey, #9 @ 10:00, 6-04-93

DATE SUBMITTED: 6-05-93

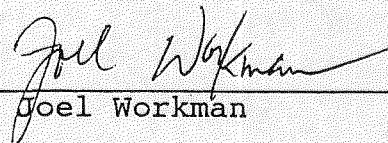
## CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	<u>DATE</u> <u>ANALYZED/METHOD</u>
TDS, mg/l	589	6-10-93 EPA 160.1
Hardness as CaCO <sub>3</sub> , mg/l	376	6-17-93 EPA 130.2
Bicarbonate as HCO <sub>3</sub> , mg/l	495	6-16-93 SM17 2320B
Carbonate as CO <sub>3</sub> , mg/l	2.3	6-16-93 SM17 2320B
Chloride as Cl, mg/l	12.1	6-07-93 EPA 325.3
Sulfate as SO <sub>4</sub> , mg/l	119	6-11-93 SM17 4500
Sulfide as S, mg/l	0.18	6-08-93 EPA 376.1
Phosphate as PO <sub>4</sub> -P, mg/l	<.01	6-14-93 SM17 4500
Nitrate as NO <sub>3</sub> -N, mg/l	<.02	6-28-93 EPA 353.1
Nitrite as NO <sub>2</sub> -N, mg/l	<.005	6-05-93 EPA 354.1
Ammonia as NH <sub>3</sub> -N, mg/l	<1	6-11-93 SM17 4500
Fluoride as F, mg/l	0.18	6-10-93 EPA 340.2
Aluminum as Al, mg/l	0.041	6-09-93 EPA 200.7
Arsenic as As, mg/l	<.04	6-09-93 EPA 200.7
Barium as Ba, mg/l	0.114	6-09-93 EPA 200.7
Boron as B, mg/l	0.052	6-09-93 EPA 200.7
Cadmium as Cd, mg/l	<.01	6-09-93 EPA 200.7
Calcium as Ca, mg/l	55.5	6-10-93 EPA 200.7
Chromium as Cr, mg/l	<.01	6-09-93 EPA 200.7
Copper as Cu, mg/l	<.01	6-09-93 EPA 200.7

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Joel Workman





# CHEMTECH

ANALYTICAL LABORATORY

6100 S. STRATLER  
MURRAY, UTAH 84107  
PHONE: (801) 262-7299  
FAX: (801) 262-7378

DATE: 7-01-93

TO: EarthFax Engineering  
7324 So. 1300 E. STE 100  
Midvale, Utah 84047

SAMPLE ID: Lab #U096136 - LA Power-Spring Survey, #9 @ 10:00, 6-04-93

DATE SUBMITTED: 6-05-93

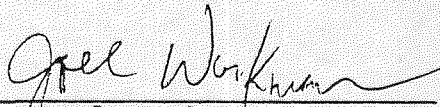
## CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	<u>DATE</u> <u>ANALYZED/METHOD</u>
Iron as Fe, mg/l	0.058	6-09-93 EPA 200.7
Lead as Pb, mg/l	<.02	6-09-93 EPA 200.7
Magnesium as Mg, mg/l	51.8	6-10-93 EPA 200.7
Manganese as Mn, mg/l	0.040	6-09-93 EPA 200.7
Mercury as Hg, mg/l	<.0002	6-09-93 EPA 245.1
Molybdenum as Mo, mg/l	<.01	6-09-93 EPA 200.7
Nickel as Ni, mg/l	<.01	6-09-93 EPA 200.7
Potassium as K, mg/l	0.80	6-10-93 EPA 200.7
Selenium as Se, mg/l	<.04	6-09-93 EPA 200.7
Sodium as Na, mg/l	72.3	6-10-93 EPA 200.7
Zinc as Zn, mg/l	<.01	6-09-93 EPA 200.7

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Div. of Oil, Gas & Mining

  
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PHONE: (801) 262-7299  
FAX: (801) 262-7378

DATE: 7-01-93

TO: EarthFax Engineering  
7324 So. 1300 E. STE 100  
Midvale, Utah 84047

SAMPLE ID: Lab #U096135 - LA Power-Spring Survey, #1 @ 10:00, 6-04-93

DATE SUBMITTED: 6-05-93

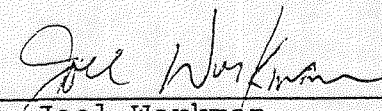
## CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	<u>DATE</u> <u>ANALYZED/METHOD</u>
TDS, mg/l	435	6-10-93 EPA 160.1
Hardness as CaCO <sub>3</sub> , mg/l	279	6-17-93 EPA 130.2
Bicarbonate as HCO <sub>3</sub> , mg/l	475	6-16-93 SM17 2320B
Carbonate as CO <sub>3</sub> , mg/l	1.2	6-16-93 SM17 2320B
Chloride as Cl, mg/l	7.3	6-07-93 EPA 325.3
Sulfate as SO <sub>4</sub> , mg/l	61.7	6-11-93 SM17 4500
Sulfide as S, mg/l	0.21	6-08-93 EPA 376.1
Phosphate as PO <sub>4</sub> -P, mg/l	<.01	6-14-93 SM17 4500
Nitrate as NO <sub>3</sub> -N, mg/l	0.036	6-28-93 EPA 353.1
Nitrite as NO <sub>2</sub> -N, mg/l	<.005	6-05-93 EPA 354.1
Ammonia as NH <sub>3</sub> -N, mg/l	<1	6-11-93 SM17 4500
Fluoride as F, mg/l	0.16	6-10-93 EPA 340.2
Aluminum as Al, mg/l	0.060	6-09-93 EPA 200.7
Arsenic as As, mg/l	<.04	6-09-93 EPA 200.7
Barium as Ba, mg/l	0.103	6-09-93 EPA 200.7
Boron as B, mg/l	0.063	6-09-93 EPA 200.7
Cadmium as Cd, mg/l	<.01	6-09-93 EPA 200.7
Calcium as Ca, mg/l	41.7	6-10-93 EPA 200.7
Chromium as Cr, mg/l	<.01	6-09-93 EPA 200.7
Copper as Cu, mg/l	<.01	6-09-93 EPA 200.7

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DATE: 7-01-93

TO: EarthFax Engineering  
7324 So. 1300 E. STE 100  
Midvale, Utah 84047

SAMPLE ID: Lab #U096135 - LA Power-Spring Survey, #1 @ 10:00, 6-04-93

DATE SUBMITTED: 6-05-93

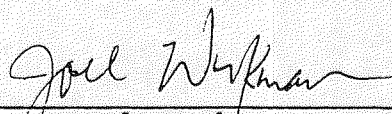
## CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	<u>DATE</u> <u>ANALYZED/METHOD</u>
Iron as Fe, mg/l	0.080	6-09-93 EPA 200.7
Lead as Pb, mg/l	<.02	6-09-93 EPA 200.7
Magnesium as Mg, mg/l	37.5	6-10-93 EPA 200.7
Manganese as Mn, mg/l	<.01	6-09-93 EPA 200.7
Mercury as Hg, mg/l	<.0002	6-09-93 EPA 245.1
Molybdenum as Mo, mg/l	<.01	6-09-93 EPA 200.7
Nickel as Ni, mg/l	<.01	6-09-93 EPA 200.7
Potassium as K, mg/l	0.47	6-10-93 EPA 200.7
Selenium as Se, mg/l	<.04	6-09-93 EPA 200.7
Sodium as Na, mg/l	41.3	6-10-93 EPA 200.7
Zinc as Zn, mg/l	<.01	6-09-93 EPA 200.7

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# INTERMOUNTAIN POWER AGENCY SEEP AND SPRING SURVEY

October 13, 1993

SEEP/SPRING NUMBER	pH (units)	COND. (umhos/cm)	FLOW RATE (gpm)	TEMP. (c)	USE/REMARKS
1	8.11	659	<.25	8	claystone, wildlife
1A			Dry		sandstone, wildlife
1B			Dry		
3	8.19	855	<.25	8	sandstone, wildlife
3A	7.87	743	.5	11	sandstone, wildlife
3B	7.80	750	.25	10	shale, wildlife
4			Dry		
4A	8.07	786	.5	8	
5			Dry		
5A			Dry		
6	7.55	894	.25	7	
6A			Dry		
7	8.36	1040	<.25	7	
7A	7.67	784	.5	9	
8	7.74	789	.5	8	
8A	7.78	764	.25	9	
8B	7.88	895	<.25	10	
9	8.20	885	1	6	sandstone, trough
10	7.63	855	<.25	10	
11	8.15	1180	2	12	
12A	8.07	1138	.25	9	sandstone
12B	8.38	1148	<.25	11	sandstone, shale
12C	8.27	1161	.5	10	limey shale

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10/27/93

Div. of Oil, Gas & Mining

# INTERMOUNTAIN POWER AGENCY SEEP AND SPRING SURVEY

October 13, 1993

SEEP/SPRING NUMBER	pH (units)	COND. (umhos/cm)	FLOW RATE (gpm)	TEMP. (c)	USE/REMARKS
12D	8.24	1174	.5	11	shale, limestone
13	8.01	1151	.25	10	
13A			Dry		
13B	8.57	1162	<.25	11	
13Z	8.14	1253	<.25	13	
14	7.89	1183	<.25	11	tank
14A			Dry		
15			Dry		
15A	8.22	1025	.5	8	sandstone, silt
15B			Seep		limey sandstone, silt
15C			Seep		sandstone, limestone
16	8.07	945	.5	8	
16A	8.29	925	.25	8	
16B			Dry		
16C			Dry		shale
17	8.18	1409	<.25	10	shale, limey sandstone
17A			Dry		shale, sandstone ledge
18			Dry		shale, sandstone ledge
18A	8.47	873	<.25	10	shale, limey sandstone
19A	7.86	1104	.25	9	shale, limestone, wildlife
19B	7.62	879	<.25	6	limey sandstone, wildlife
19C	7.93	782	.25	7	shale, sandstone ledge
20			Dry		
22	8.37	1078	.25	10	

## CHAIN-OF-CUSTODY FORM

Sampling Company: <u>EMERFAX</u>	Sampling Personnel: <u>PCG</u>
Project Name: <u>LH POWER SUPPLY SPRING</u>	Project Number: <u>INC 28402</u>
Analytical Laboratory: <u>Chenier</u>	Date of Shipment/Delivery: <u>10-15-92</u>
Method of Shipment/Delivery: <u>hand</u>	Airbill Number: <u>—</u>

Field Sample No.	Date Sampled	Time Sampled	Sample Type	No. of Containers	Remarks
S-1	10-13-93 <sup>CDH</sup>	1200	Water	4	SEE ATTACHED SHEET
S-9	10-13-93 <sup>CDH</sup>	1205	Water	4	for requested analysis
S-10	10-13-93 <sup>CDH</sup>	1206	Water	4	
S-14	10-13-93 <sup>CDH</sup>	1230	Water	4	
S-16	10-13-93 <sup>CDH</sup>	1300	Water	4	

Relinquished by: <u>EMERFAX</u>	Date: <u>10-15-93</u>	Time: <u>5:10 PM</u>	Received by: <u>PCG</u>	Date: <u>10-15-93</u>	Time: <u>3:10</u>
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

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WATER SAMPLE ANALYSIS REQUEST FORM

Sampling Company: <i>ENVIROFAX</i>	Sampling Personnel: <i>PBG</i>
Project Name: <i>LA POWER SEED SPRING</i>	Project Number: <i>UC 284.02</i>
Field Sample Number: <i>S-1</i>	Laboratory Sample Number:
Date Sampled: <i>10-13-93</i>	Time Sampled: <i>1200</i>
Analytical Laboratory: <i>Chambers</i>	Date of Shipment/Delivery: <i>10-15-93</i>

Bottle Type	Number of Bottles	Preservative(s)	Analyses Requested
<i>Plastic</i>	<i>4</i>		<i>See Attached Sheets</i>

Special Requirements:

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# WATER SAMPLE ANALYSIS REQUEST FORM

Sampling Company: <i>EARTHIPAK</i>	Sampling Personnel: <i>REG</i>
Project Name: <i>LA FOWLER SEEP &amp; SPRING</i>	Project Number: <i>LC 284.02</i>
Field Sample Number: <i>S-9</i>	Laboratory Sample Number:
Date Sampled: <i>10-13-93</i>	Time Sampled: <i>1205</i>
Analytical Laboratory: <i>ChemLab</i>	Date of Shipment/Delivery: <i>10-15-93</i>

Bottle Type	Number of Bottles	Preservative(s)	Analyses Requested
<i>Plastic</i>	<i>4</i>		<i>See Attached Sheets</i>

Special Requirements:
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EarthFax Engineering, Inc.  
7524 So. Union Park Avenue  
Midvale, UT 84047  
(801) 561-1555

4 of 6

### WATER SAMPLE ANALYSIS REQUEST FORM

Sampling Company: <i>EarthFax</i>	Sampling Personnel: <i>KRG</i>
Project Name: <i>LA Poudre Sup. Spring</i>	Project Number: <i>11C284.02</i>
Field Sample Number: <i>S-10</i>	Laboratory Sample Number:
Date Sampled: <i>10-13-93</i>	Time Sampled: <i>1206</i>
Analytical Laboratory: <i>Chromalock</i>	Date of Shipment/Delivery: <i>10-15-93</i>

Bottle Type	Number of Bottles	Preservative(s)	Analyses Requested
<i>Plastic</i>	<i>4</i>		<i>See Attached Sheets</i>

Special Requirements:
-----------------------

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### WATER SAMPLE ANALYSIS REQUEST FORM

Sampling Company: <i>EarthFax</i>	Sampling Personnel: <i>ABG</i>
Project Name: <i>LA Honda Creek Spring</i>	Project Number: <i>MC 284.02</i>
Field Sample Number: <i>S-14</i>	Laboratory Sample Number:
Date Sampled: <i>10-13-93</i>	Time Sampled: <i>1230</i>
Analytical Laboratory: <i>Chromtech</i>	Date of Shipment/Delivery: <i>10-15-93</i>

Bottle Type	Number of Bottles	Preservative(s)	Analyses Requested
<i>Plastic</i>	<i>4</i>		<i>See Attached Sheets</i>

Special Requirements:
-----------------------

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6-16

WATER SAMPLE ANALYSIS REQUEST FORM

Sampling Company: <i>EarthFax</i>	Sampling Personnel: <i>RPG</i>
Project Name: <i>LA Power Sec 8 Spring</i>	Project Number: <i>1.CC.284.02</i>
Field Sample Number: <i>5-16</i>	Laboratory Sample Number:
Date Sampled: <i>10-13-93</i>	Time Sampled: <i>1300</i>
Analytical Laboratory: <i>Chim Tech</i>	Date of Shipment/Delivery: <i>10-15-93</i>

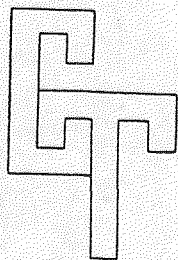
Bottle Type	Number of Bottles	Preservative(s)	Analyses Requested
<i>Plastic</i>	<i>4</i>		<i>SEE ATTACHED SHEETS</i>

Special Requirements:

INCORPORATED

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# CHEMTECH

ANALYTICAL LABORATORY

6100 S. STRATLER  
MURRAY, UTAH 84107  
PHONE: (801) 262-7299  
FAX: (801) 262-7378

DATE: 11-12-93

TO: Earthfax Engineering  
7324 S. Union Park Ave. STE 100  
Midvale, Utah 84047

SAMPLE ID: Lab #U100854, LA Power Seep & Spring, S-1 **INCORPORATED**

DATE SAMPLED: 10-13-93

**MAY 18 2007**

DATE SUBMITTED: 10-15-93

## CERTIFICATE OF ANALYSIS

Div. of Oil, Gas & Mining

<u>PARAMETER</u>	<u>DETECTED</u>	<u>DATE ANALYZED/METHOD</u>
TDS, mg/l	394	10-20-93 EPA 160.1
Hardness as CaCO <sub>3</sub> , mg/l	281	10-22/10-25 EPA 130.2
Bicarbonate as HCO <sub>3</sub> , mg/l	372	10-27-93 SM17 2320B
Carbonate as CO <sub>3</sub> , mg/l	<1	10-27-93 SM17 2320B
Chloride as Cl, mg/l	18.5	11-04-93 EPA 325.3
Sulfate as SO <sub>4</sub> , mg/l	59.3	11-03-93 EPA 375.4
Sulfide as S, mg/l	<.5	10-19-93 EPA 376.1
Phosphate as PO <sub>4</sub> , mg/l	0.205	10-19-93 SM17 4500E
NO <sub>3</sub> -N + NO <sub>2</sub> -N, mg/l	<.02	10-21-93 EPA 353.1
*Nitrite as NO <sub>2</sub> -N, mg/l	<.01	10-19-93 EPA 354.1
Ammonia as NH <sub>3</sub> -N, mg/l	<.2	10-27-93 SM17 4500G
Fluoride as F, mg/l	0.19	10-24-93 EPA 340.2
Aluminum as Al, mg/l	0.133	10-21-93 EPA 200.7
Arsenic as As, mg/l	<.04	10-21-93 EPA 200.7
Barium as Ba, mg/l	0.10	10-21-93 EPA 200.7
Boron as B, mg/l	0.082	10-21-93 EPA 200.7
Cadmium as Cd, mg/l	<.01	10-21-93 EPA 200.7
Calcium as Ca, mg/l	43.3	10-22-93 EPA 200.7
Chromium as Cr, mg/l	<.01	10-21-93 EPA 200.7
Copper as Cu, mg/l	<.01	10-21-93 EPA 200.7

NOTE: Sample temp. when submitted was 9.1°C on ice.

\* = Sample was submitted past holding time for this parameter.

  
Joel Workman





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FAX: (801) 262-7378

TO: Earthfax Engineering  
7324 S. Union Park Ave. STE 100  
Midvale, Utah 84047

DATE: 11-12-93

SAMPLE ID: Lab #U100854, LA Power Seep & Spring, S-1

DATE SAMPLED: 10-13-93

DATE SUBMITTED: 10-15-93

## CERTIFICATE OF ANALYSIS

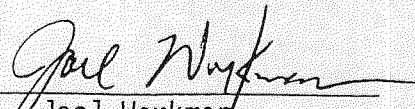
<u>PARAMETER</u>	<u>DETECTED</u>	<u>DATE ANALYZED/METHOD</u>
Iron as Fe, mg/l	0.125	10-21-93 EPA 200.7
Lead as Pb, mg/l	<.02	10-21-93 EPA 200.7
Magnesium as Mg, mg/l	37.6	10-22-93 EPA 200.7
Manganese as Mn, mg/l	0.015	10-21-93 EPA 200.7
Mercury as Hg, mg/l	<.0002	10-20-93 EPA 245.1
Molybdenum as Mo, mg/l	<.04	10-21-93 EPA 200.7
Nickel as Ni, mg/l	<.01	10-21-93 EPA 200.7
Potassium as K, mg/l	0.736	10-22-93 EPA 200.7
Selenium as Se, mg/l	<.04	10-21-93 EPA 200.7
Sodium as Na, mg/l	41.3	10-21-93 EPA 200.7
Zinc as Zn, mg/l	<.01	10-22-93 EPA 200.7

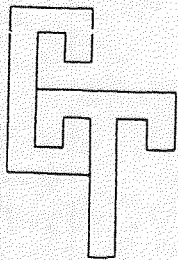
NOTE: Sample temp. when submitted was 9.1°C on ice.

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SAMPLE ID: Lab #U100855, LA Power Seep & Spring, S-9  
DATE SAMPLED: 10-13-93  
DATE SUBMITTED: 10-15-93

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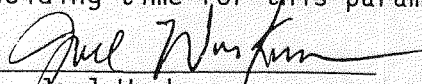
## CERTIFICATE OF ANALYSIS

Div. of Oil, Gas & Mining

<u>PARAMETER</u>	<u>DETECTED</u>	<u>DATE ANALYZED/METHOD</u>
TDS, mg/l	568	10-20-93 EPA 160.1
Hardness as CaCO <sub>3</sub> , mg/l	381	10-22/10-25 EPA 130.2
Bicarbonate as HCO <sub>3</sub> , mg/l	501	10-27-93 SM17 2320B
Carbonate as CO <sub>3</sub> , mg/l	1.2	10-27-93 SM17 2320B
Chloride as Cl, mg/l	13.9	11-04-93 EPA 325.3
Sulfate as SO <sub>4</sub> , mg/l	99.6	11-03-93 EPA 375.4
Sulfide as S, mg/l	<.5	10-19-93 EPA 376.1
Phosphate as PO <sub>4</sub> , mg/l	0.014	10-19-93 SM17 4500E
NO <sub>3</sub> -N + NO <sub>2</sub> -N, mg/l	<.02	10-21-93 EPA 353.1
*Nitrite as NO <sub>2</sub> -N, mg/l	<.01	10-19-93 EPA 354.1
Ammonia as NH <sub>3</sub> -N, mg/l	<.2	10-27-93 SM17 4500G
Fluoride as F, mg/l	0.18	10-24-93 EPA 340.2
Aluminum as Al, mg/l	<.1	10-21-93 EPA 200.7
Arsenic as As, mg/l	<.04	10-21-93 EPA 200.7
Barium as Ba, mg/l	0.114	10-21-93 EPA 200.7
Boron as B, mg/l	0.028	10-21-93 EPA 200.7
Cadmium as Cd, mg/l	<.01	10-21-93 EPA 200.7
Calcium as Ca, mg/l	60.2	10-22-93 EPA 200.7
Chromium as Cr, mg/l	<.01	10-21-93 EPA 200.7
Copper as Cu, mg/l	<.01	10-21-93 EPA 200.7

NOTE: Sample temp. when submitted was 9.1°C on ice.

\* = Sample was submitted past holding time for this parameter.

  
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TO: Earthfax Engineering  
7324 S. Union Park Ave. STE 100  
Midvale, Utah 84047

DATE: 11-12-93

SAMPLE ID: Lab #U100855, LA Power Seep & Spring, S-9

DATE SAMPLED: 10-13-93

DATE SUBMITTED: 10-15-93

## CERTIFICATE OF ANALYSIS

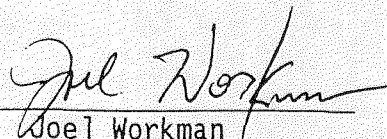
<u>PARAMETER</u>	<u>DETECTED</u>	<u>DATE ANALYZED/METHOD</u>
Iron as Fe, mg/l	0.064	10-21-93 EPA 200.7
Lead as Pb, mg/l	<.02	10-21-93 EPA 200.7
Magnesium as Mg, mg/l	52.9	10-22-93 EPA 200.7
Manganese as Mn, mg/l	0.022	10-21-93 EPA 200.7
Mercury as Hg, mg/l	<.0002	10-20-93 EPA 245.1
Molybdenum as Mo, mg/l	<.04	10-21-93 EPA 200.7
Nickel as Ni, mg/l	<.01	10-21-93 EPA 200.7
Potassium as K, mg/l	1.12	10-22-93 EPA 200.7
Selenium as Se, mg/l	<.04	10-21-93 EPA 200.7
Sodium as Na, mg/l	68.5	10-21-93 EPA 200.7
Zinc as Zn, mg/l	<.01	10-22-93 EPA 200.7

NOTE: Sample temp. when submitted was 9.1°C on ice.

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MURRAY, UTAH 84107  
PHONE: (801) 262-7299  
FAX: (801) 262-7378

DATE: 11-12-93

TO: Earthfax Engineering  
7324 S. Union Park Ave. STE 100  
Midvale, Utah 84047

SAMPLE ID: Lab #U100856, LA Power Seep & Spring, S-10 INCORPORATED

DATE SAMPLED: 10-13-93

MAY 18 2007

DATE SUBMITTED: 10-15-93

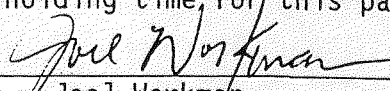
## CERTIFICATE OF ANALYSIS

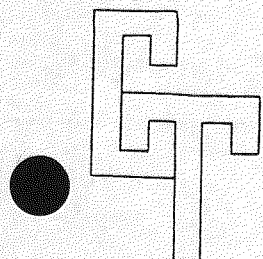
Div. of Oil, Gas & Mining

<u>PARAMETER</u>	<u>DETECTED</u>	<u>DATE ANALYZED/METHOD</u>
TDS, mg/l	630	10-20-93 EPA 160.1
Hardness as CaCO <sub>3</sub> , mg/l	455	10-22/10-25 EPA 130.2
Bicarbonate as HCO <sub>3</sub> , mg/l	500	10-27-93 SM17 2320B
Carbonate as CO <sub>3</sub> , mg/l	<1.0	10-27-93 SM17 2320B
Chloride as Cl, mg/l	11.8	11-04-93 EPA 325.3
Sulfate as SO <sub>4</sub> , mg/l	184	11-03-93 EPA 375.4
Sulfide as S, mg/l	<.5	10-19-93 EPA 376.1
Phosphate as PO <sub>4</sub> , mg/l	0.060	10-19-93 SM17 4500E
NO <sub>3</sub> -N + NO <sub>2</sub> -N, mg/l	0.132	10-21-93 EPA 353.1
*Nitrite as NO <sub>2</sub> -N, mg/l	<.01	10-19-93 EPA 354.1
Ammonia as NH <sub>3</sub> -N, mg/l	<.2	10-27-93 SM17 4500G
Fluoride as F, mg/l	0.16	10-24-93 EPA 340.2
Aluminum as Al, mg/l	0.793	10-21-93 EPA 200.7
Arsenic as As, mg/l	<.04	10-21-93 EPA 200.7
Barium as Ba, mg/l	0.040	10-21-93 EPA 200.7
Boron as B, mg/l	0.085	10-21-93 EPA 200.7
Cadmium as Cd, mg/l	<.01	10-21-93 EPA 200.7
Calcium as Ca, mg/l	76.7	10-22-93 EPA 200.7
Chromium as Cr, mg/l	<.01	10-21-93 EPA 200.7
Copper as Cu, mg/l	<.01	10-21-93 EPA 200.7

NOTE: Sample temp. when submitted was 9.1°C on ice.

\* = Sample was submitted past holding time for this parameter.

  
Joel Workman



# CHEMTECH

ANALYTICAL LABORATORY

6100 S. STRATLER  
MURRAY, UTAH 84107  
PHONE: (801) 262-7299  
FAX: (801) 262-7378

TO: Earthfax Engineering  
7324 S. Union Park Ave. STE 100  
Midvale, Utah 84047

DATE: 11-12-93

SAMPLE ID: Lab #U100856, LA Power Seep & Spring, S-10

DATE SAMPLED: 10-13-93

DATE SUBMITTED: 10-15-93

## CERTIFICATE OF ANALYSIS

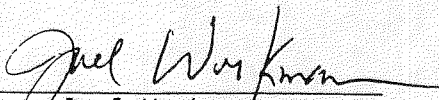
<u>PARAMETER</u>	<u>DETECTED</u>	<u>DATE ANALYZED/METHOD</u>
Iron as Fe, mg/l	0.775	10-21-93 EPA 200.7
Lead as Pb, mg/l	<.02	10-21-93 EPA 200.7
Magnesium as Mg, mg/l	58.6	10-22-93 EPA 200.7
Manganese as Mn, mg/l	0.077	10-21-93 EPA 200.7
Mercury as Hg, mg/l	<.0002	10-20-93 EPA 245.1
Molybdenum as Mo, mg/l	<.04	10-21-93 EPA 200.7
Nickel as Ni, mg/l	<.01	10-21-93 EPA 200.7
Potassium as K, mg/l	1.20	10-22-93 EPA 200.7
Selenium as Se, mg/l	<.04	10-21-93 EPA 200.7
Sodium as Na, mg/l	60.9	10-21-93 EPA 200.7
Zinc as Zn, mg/l	<.01	10-22-93 EPA 200.7

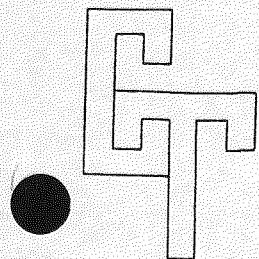
NOTE: Sample temp. when submitted was 9.1°C on ice.

INCORPORATED

MAY 18 2007

Div. of Oil, Gas & Mining

  
Joel Workman



# CHEMTECH

ANALYTICAL LABORATORY

6100 S. STRATLER  
MURRAY, UTAH 84107  
PHONE: (801) 262-7299  
FAX: (801) 262-7378

DATE: 11-12-93

TO: Earthfax Engineering  
7324 S. Union Park Ave. STE 100  
Midvale, Utah 84047

SAMPLE ID: Lab #U100857, LA Power Seep & Spring, S-14  
DATE SAMPLED: 10-13-93  
DATE SUBMITTED: 10-15-93

INCORPORATED

MAY 18 2007

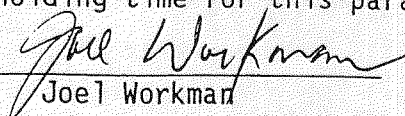
Div. of Oil, Gas & Mining

## CERTIFICATE OF ANALYSIS

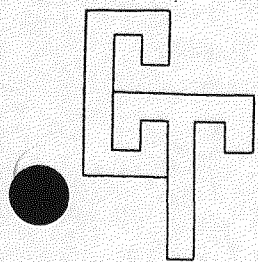
<u>PARAMETER</u>	<u>DETECTED</u>	<u>DATE ANALYZED/METHOD</u>
TDS, mg/l	1,500	10-20-93 EPA 160.1
Hardness as CaCO <sub>3</sub> , mg/l	599	10-22/10-25 EPA 130.2
Bicarbonate as HCO <sub>3</sub> , mg/l	555	10-27-93 SM17 2320B
Carbonate as CO <sub>3</sub> , mg/l	<1.0	10-27-93 SM17 2320B
Chloride as Cl, mg/l	63.2	11-04-93 EPA 325.3
Sulfate as SO <sub>4</sub> , mg/l	679	11-03-93 EPA 375.4
Sulfide as S, mg/l	<.5	10-19-93 EPA 376.1
Phosphate as PO <sub>4</sub> , mg/l	0.011	10-19-93 SM17 4500E
NO <sub>3</sub> -N + NO <sub>2</sub> -N, mg/l	<.02	10-21-93 EPA 353.1
*Nitrite as NO <sub>2</sub> -N, mg/l	<.01	10-19-93 EPA 354.1
Ammonia as NH <sub>3</sub> -N, mg/l	<.2	10-27-93 SM17 4500G
Fluoride as F, mg/l	0.26	10-24-93 EPA 340.2
Aluminum as Al, mg/l	<.1	10-21-93 EPA 200.7
Arsenic as As, mg/l	<.04	10-21-93 EPA 200.7
Barium as Ba, mg/l	0.017	10-21-93 EPA 200.7
Boron as B, mg/l	0.233	10-21-93 EPA 200.7
Cadmium as Cd, mg/l	<.01	10-21-93 EPA 200.7
Calcium as Ca, mg/l	60.4	10-22-93 EPA 200.7
Chromium as Cr, mg/l	<.01	10-21-93 EPA 200.7
Copper as Cu, mg/l	<.01	10-21-93 EPA 200.7

NOTE: Sample temp. when submitted was 9.1°C on ice.

\* = Sample was submitted past holding time for this parameter.

  
Joe Workman





# CHEMTECH

ANALYTICAL LABORATORY

6100 S. STRATLER  
MURRAY, UTAH 84107  
PHONE: (801) 262-7299  
FAX: (801) 262-7378

TO: Earthfax Engineering  
7324 S. Union Park Ave. STE 100  
Midvale, Utah 84047

DATE: 11-12-93

SAMPLE ID: Lab #U100857, LA Power Seep & Spring, S-14

DATE SAMPLED: 10-13-93

DATE SUBMITTED: 10-15-93

## CERTIFICATE OF ANALYSIS

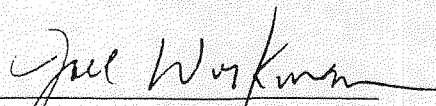
<u>PARAMETER</u>	<u>DETECTED</u>	<u>DATE ANALYZED/METHOD</u>
Iron as Fe, mg/l	0.032	10-21-93 EPA 200.7
Lead as Pb, mg/l	<.02	10-21-93 EPA 200.7
Magnesium as Mg, mg/l	98.3	10-22-93 EPA 200.7
Manganese as Mn, mg/l	<.01	10-21-93 EPA 200.7
Mercury as Hg, mg/l	<.0002	10-20-93 EPA 245.1
Molybdenum as Mo, mg/l	<.04	10-21-93 EPA 200.7
Nickel as Ni, mg/l	<.01	10-21-93 EPA 200.7
Potassium as K, mg/l	1.89	10-22-93 EPA 200.7
Selenium as Se, mg/l	<.04	10-21-93 EPA 200.7
Sodium as Na, mg/l	270	10-21-93 EPA 200.7
Zinc as Zn, mg/l	<.01	10-22-93 EPA 200.7

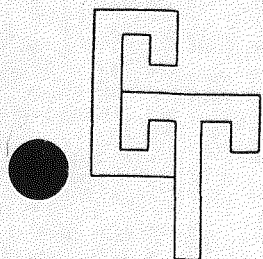
NOTE: Sample temp. when submitted was 9.1°C on ice.

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MAY 18 2007

Div. of Oil, Gas & Mining

  
Joel Workman



# CHEMTECH

ANALYTICAL LABORATORY

6100 S. STRATLER  
MURRAY, UTAH 84107  
PHONE: (801) 262-7299  
FAX: (801) 262-7378

TO: Earthfax Engineering  
7324 S. Union Park Ave. STE 100  
Midvale, Utah 84047

DATE: 11-12-93

SAMPLE ID: Lab #U100858, LA Power Seep & Spring, S-16

DATE SAMPLED: 10-13-93

DATE SUBMITTED: 10-15-93

## CERTIFICATE OF ANALYSIS

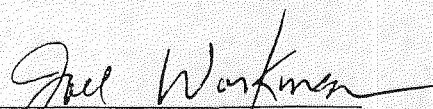
<u>PARAMETER</u>	<u>DETECTED</u>	<u>DATE ANALYZED/METHOD</u>
Iron as Fe, mg/l	0.060	10-21-93 EPA 200.7
Lead as Pb, mg/l	<.02	10-21-93 EPA 200.7
Magnesium as Mg, mg/l	52.2	10-22-93 EPA 200.7
Manganese as Mn, mg/l	<.01	10-21-93 EPA 200.7
Mercury as Hg, mg/l	<.0002	10-20-93 EPA 245.1
Molybdenum as Mo, mg/l	<.04	10-21-93 EPA 200.7
Nickel as Ni, mg/l	<.01	10-21-93 EPA 200.7
Potassium as K, mg/l	0.979	10-22-93 EPA 200.7
Selenium as Se, mg/l	<.04	10-21-93 EPA 200.7
Sodium as Na, mg/l	103	10-21-93 EPA 200.7
Zinc as Zn, mg/l	<.01	10-22-93 EPA 200.7

NOTE: Sample temp. when submitted was 9.1°C on ice.

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Joel Workman

# INTERMOUNTAIN POWER AGENCY SEEP AND SPRING SURVEY

May 11-12, 1994

SEEP/SPRING NUMBER	pH (units)	COND. (umhos/cm)	FLOW RATE (gpm)	TEMP. (c)	USE/REMARKS
1	7.61	657	.5	10	claystone, wildlife
1A	6.76	701	.25	6	sandstone, wildlife
1B			seep		
3	7.88	722	< .25	13	sandstone, wildlife
3A	7.35	632	.5	8	sandstone, wildlife
3B	7.40	613	.25	10	shale, wildlife
4			1	6	
4A	7.40	658			
5	7.40	753	.25	6	
5A					
6			seep		
6A					
7	7.50	654	.25	7	
7A					
8	7.74	7.49	< .25	7	
8A					
8B					
9	7.95	806	.5	12	sandstone, trough
10	7.79	922	.25	7	
11	8.16	1074	2	12	
12A	7.78	2040	.25	8	sandstone
12B	8.02	1785	.25	9	sandstone, shale
12C	8.15	1721	.5	9	limey shale

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Div. of Oil, Gas



# INTERMOUNTAIN POWER AGENCY SEEP AND SPRING SURVEY

May 11-12, 1994

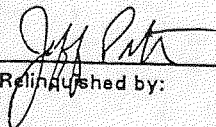
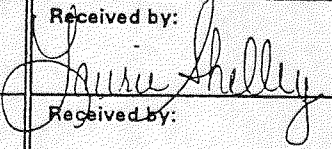
SEEP/SPRING NUMBER	pH (units)	COND. (umhos/cm)	FLOW RATE (gpm)	TEMP. (c)	USE/REMARKS
12D			seep		shale, limestone
13	8.01	1320	1	12	
13A					
13B	8.33	1270	2	12	
13Z			seep		
14	7.77	1730	.25	12.5	tank
14A			dry		
15			dry		
15A	7.75	849	.25	8	sandstone, silt
15B			dry		limey sandstone, silt
15C			seep		sandstone, limestone
16	7.94	909	.25	10.5	
16A	7.94	901	.25	14	
16B			dry		
16C			dry		shale
17	8.06	1110	<.25	10	shale, limey sandstone
17A			seep		shale, sandstone ledge
18	8.22	835	.5	15	shale, sandstone ledge
18A					shale, limey sandstone
19A	7.87	825	.25	10	shale, limestone, wildlife
19B	7.89	840	.5	8	limey sandstone, wildlife
19C	7.96	777	.5	10	shale, sandstone ledge
20			seep		
22	8.02	1004	<.25	11	

EARTHFAX ENGINEERING INC.  
7324 SOUTH 1300 EAST  
Midvale, Utah 84047

CHAIN-OF-CUSTODY FORM

Sampling Company: EarthFax Engineering Inc.	Sampling Personnel: JRP, CDH, RBG
Project Name: IPA Seep & Spring Survey	Project Number: UC-284-07
Analytical Laboratory: Chemtech	Date of Shipment/Delivery: 5-13-94
Method of Shipment/Delivery: In person	Airbill Number: NA

Field Sample No.	Date Sampled	Time Sampled	Sample Type	No. of Containers	Remarks
HC-2	5-12-94	1240	H2O	4	
HC-9	5-12-94	1000	H2O	4	
HC-11	5-12-94	1355	H2O	4	
HC-13	5-12-94	1440	H2O	4	
HC-18	5-12-94	1116	H2O	4	
HCSW-1	5-12-94	1300	H2O	4	
1	5-12-94	0800	H2O	4	
9	5-12-94	1000	H2O	4	
10 SLB	5-12-94	0730	H2O	4	
14	5-12-94	1030	H2O	4	
16A	5-12-94	1830	H2O	4	

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
	5-13-94	15:00		5-13	1500
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

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Div. of Oil, Gas &...

LOS ANGELES DEPARTMENT OF WATER AND POWER  
HORSE CANYON MINE  
SEEP AND SPRING DATA  
MAY 1994

SEEP/SPRING Number	PH (units)	CONDUCTIVITY (umhos/cm @ 25 deg C)	FLOW RATE (gpm)	TEMPERATURE (deg C)
HC-2	7.93	1200	9	8.5
HC-9	7.73	1700	3	9.0
HC-11	7.77	992	2	8.5
HC-13	7.86	1690	0.25	11.0
HC-18	8.14	1050	5	8.0
SURFACE WATER Number				
HCSW-1	7.83	1700	6	13
HCSW-2			DRY	
HCSW-3			DRY	

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MAY 18 2007



EARTHFAX ENGINEERING, INC.  
7324 South 1300 East  
Midvale, Utah 84047

WATER SAMPLE ANALYSIS REQUEST FORM

Sampling Company: EarthFax Engineering, Inc.	Sampling Personnel: JRP, CDH, RBG
Project Name: IPA Seep & Spring Survey	Project Number: UC-284-07
Field Sample Number: 1	Laboratory Sample Number:
Date Sampled: 5-12-94	Time Sampled: 0800
Analytical Laboratory: Chemtech	Date of Shipment/Delivery: 5-13-94

Container Type	Number of Bottles	Preservative(s)	Analyses Requested
PLASTIC QUART	2		SEE ATTACHED SHEET
PLASTIC PINT	2		

Special Requirements:
-----------------------

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Div. of Oil, Gas & Mining

EARTHFAX ENGINEERING, INC.  
7324 South 1300 East  
Midvale, Utah 84047

WATER SAMPLE ANALYSIS REQUEST FORM

Sampling Company: EarthFax Engineering, Inc.	Sampling Personnel: JRP, CDH, RBG
Project Name: IPA Seep & Spring Survey	Project Number: UC-284-07
Field Sample Number: 9	Laboratory Sample Number:
Date Sampled: 5-12-94	Time Sampled: 1000
Analytical Laboratory: Chemtech	Date of Shipment/Delivery: 5-13-94

Container Type	Number of Bottles	Preservative(s)	Analyses Requested
PLASTIC QUART	2		SEE ATTACHED SHEET
PLASTIC PINT	2		

Special Requirements:
-----------------------

INCORPORATED

MAY 18 2007

Div. of Oil, Gas & Mining

EARTHFAX ENGINEERING, INC.  
7324 South 1300 East  
Midvale, Utah 84047

WATER SAMPLE ANALYSIS REQUEST FORM

Sampling Company: EarthFax Engineering, Inc.	Sampling Personnel: JRP, CDH, RBG
Project Name: IPA Seep & Spring Survey	Project Number: UC-284-07
Field Sample Number: 10 SLB	Laboratory Sample Number:
Date Sampled: 5-12-94	Time Sampled: 0730
Analytical Laboratory: Chemtech	Date of Shipment/Delivery: 5-13-94

Container Type	Number of Bottles	Preservative(s)	Analyses Requested
PLASTIC QUART	2		SEE ATTACHED SHEET
PLASTIC PINT	2		

Special Requirements:
-----------------------

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Div. of Oil, Gas & Mining



EARTHFAX ENGINEERING, INC.  
7324 South 1300 East  
Midvale, Utah 84047

WATER SAMPLE ANALYSIS REQUEST FORM

Sampling Company: EarthFax Engineering, Inc.	Sampling Personnel: JRP, CDH, RBG
Project Name: IPA Seep & Spring Survey	Project Number: UC-284-07
Field Sample Number: 14	Laboratory Sample Number:
Date Sampled: 5-12-94	Time Sampled: 1030
Analytical Laboratory: Chemtech	Date of Shipment/Delivery: 5-13-94

Container Type	Number of Bottles	Preservative(s)	Analyses Requested
PLASTIC QUART	2		SEE ATTACHED SHEET
PLASTIC PINT	2		

Special Requirements:
-----------------------

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EARTHFAX ENGINEERING, INC.  
7324 South 1300 East  
Midvale, Utah 84047

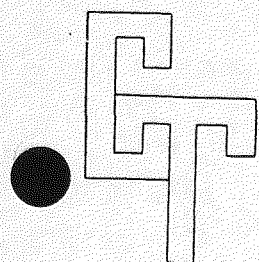
WATER SAMPLE ANALYSIS REQUEST FORM

Sampling Company: EarthFax Engineering, Inc.	Sampling Personnel: JRP, CDH, RBG
Project Name: IPA Seep & Spring Survey	Project Number: UC-284-07
Field Sample Number: 16A	Laboratory Sample Number:
Date Sampled: 5-12-94	Time Sampled: 1830
Analytical Laboratory: Chemtech	Date of Shipment/Delivery: 5-13-94

Container Type	Number of Bottles	Preservative(s)	Analyses Requested
PLASTIC QUART	2		SEE ATTACHED SHEET
PLASTIC PINT	2		

Special Requirements:

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MAY 18 2007  
Div. of Oil, Gas & Mining



# CHEMTECH

ANALYTICAL LABORATORY

6100 S. STRATLER  
MURRAY, UTAH 84107  
PHONE: (801) 262-7299  
FAX: (801) 262-7378

DATE: 6-02-94

TO: Earthfax Engineering  
7324 S. 1300 E. STE 100  
Midvale, Utah 84047

PROJECT: IPA Seep & Spring Survey

DATE SAMPLED: 5-12-94

DATE SUBMITTED: 5-13-94

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Div. of Oil, Gas & Mining

## CERTIFICATE OF ANALYSIS

SAMPLE ID:

LAB #:

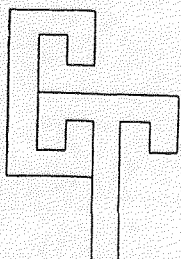
### PARAMETER

	1 <u>U007206</u>	9 <u>U007207</u>	10 SLB <u>U007208</u>	<u>DATE</u> <u>ANALYZED/METHOD</u>
Carbonate as CO <sub>3</sub> , mg/l	17	20	12	5-20-94 SM17 2320B
Bicarbonate as HCO <sub>3</sub> , mg/l	307	394	333	5-20-94 SM17 2320B
Chloride as Cl, mg/l	11	11	13	5-19-94 EPA 325.3
Fluoride as F, mg/l	<.5	0.16	0.15	5-20-94 EPA 340.2
Ammonia as NH <sub>3</sub> -N, mg/l	<.2	<.2	<.2	6-01-94 SM17 4500
Nitrate as NO <sub>3</sub> -N, mg/l	0.044	0.023	0.038	5-17-94 EPA 353.1
Nitrite as NO <sub>2</sub> -N, mg/l	0.0107	0.0077	0.0066	5-13-94 EPA 354.1
Phosphorus as P, mg/l	0.166	<.02	0.054	5-31-94 SM17 4500P
Sulfate as SO <sub>4</sub> , mg/l	67	98	209	5-18-94 SM17 4500
Sulfide as S, mg/l	<.1	0.21	<.1	5-18-94 EPA 376.1
Aluminum as Al, mg/l	1.11	0.026	1.67	5-19-94 EPA 200.7
Arsenic as As, mg/l	<.04	<.04	<.04	5-19-94 EPA 200.7
Barium as Ba, mg/l	0.110	0.117	0.069	5-19-94 EPA 200.7
Boron as B, mg/l	0.082	0.053	0.062	5-19-94 EPA 200.7
Cadmium as Cd, mg/l	<.01	<.01	<.01	5-19-94 EPA 200.7
Calcium as Ca, mg/l	48.1	58.5	77.1	5-16-94 EPA 200.7
Chromium as Cr, mg/l	<.01	<.01	<.01	5-19-94 EPA 200.7

NOTE: Sample temp. when submitted was 6.7°C on ice.

Approved By: \_\_\_\_\_





# CHEMTECH

ANALYTICAL LABORATORY

6100 S. STRATLER  
MURRAY, UTAH 84107  
PHONE: (801) 262-7299  
FAX: (801) 262-7378

DATE: 6-02-94

TO: Earthfax Engineering  
7324 S. 1300 E. STE 100  
Midvale, Utah 84047

INCORPORATED

MAY 18 2007

Div. of Oil, Gas & Mining

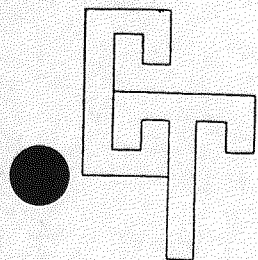
PROJECT: IPA Seep & Spring Survey  
DATE SAMPLED: 5-12-94  
DATE SUBMITTED: 5-13-94

## CERTIFICATE OF ANALYSIS

SAMPLE ID: LAB #:	1 <u>U007206</u>	9 <u>U007207</u>	10 SLB <u>U007208</u>	DATE <u>ANALYZED/METHOD</u>
<u>PARAMETER</u>				
Copper as Cu, mg/l	<.01	<.01	<.01	5-19-94 EPA 200.7
Iron as Fe, mg/l	1.15	0.248	2.30	5-19-94 EPA 200.7
Lead as Pb, mg/l	0.046	0.043	0.046	5-19-94 EPA 200.7
Magnesium as Mg, mg/l	42.0	52.2	68.8	5-16-94 EPA 200.7
Manganese as Mn, mg/l	0.021	0.011	0.067	5-19-94 EPA 200.7
Mercury as Hg, mg/l	<.0002	<.0002	<.0002	5-17-94 EPA 245.1
Molybdenum as Mo, mg/l	<.04	<.04	<.04	5-19-94 EPA 200.7
Nickel as Ni, mg/l	<.01	<.01	<.01	5-19-94 EPA 200.7
Potassium as K, mg/l	0.79	0.85	1.2	5-16-94 EPA 200.7
Selenium as Se, mg/l	<.04	<.04	<.04	5-19-94 EPA 200.7
Sodium as Na, mg/l	47.7	70.8	70.4	5-16-94 EPA 200.7
Zinc as Zn, mg/l	0.036	<.01	0.028	5-19-94 EPA 200.7
TDS, mg/l	418	542	671	5-16-94 EPA 160.1
Hardness as CaCO <sub>3</sub> , mg/l	351	354	480	5-16-94 EPA 130.2

NOTE: Sample temp. when submitted was 6.7°C on ice.

Approved By: \_\_\_\_\_



# CHEMTECH

ANALYTICAL LABORATORY

6100 S. STRATLER  
MURRAY, UTAH 84107  
PHONE: (801) 262-7299  
FAX: (801) 262-7378

DATE: 6-02-94

TO: Earthfax Engineering  
7324 S. 1300 E. STE 100  
Midvale, Utah 84047

INCORPORATED

MAY 18 2007

Div. of Oil, Gas & Mining

PROJECT: IPA Seep & Spring Survey

DATE SAMPLED: 5-12-94

DATE SUBMITTED: 5-13-94

## CERTIFICATE OF ANALYSIS

SAMPLE ID:  
LAB #:

14  
U007209

16A  
U007210

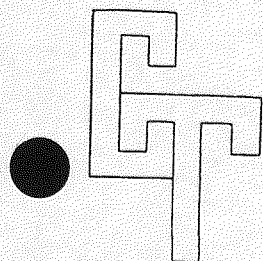
DATE  
ANALYZED/METHOD

### PARAMETER

Carbonate as CO <sub>3</sub> , mg/l	41	24	5-20-94 SM17 2320B
Bicarbonate as HCO <sub>3</sub> , mg/l	477	372	5-20-94 SM17 2320B
Chloride as Cl, mg/l	42	17	5-19-94 EPA 325.3
Fluoride as F, mg/l	0.21	<.3	5-20-94 EPA 340.2
Ammonia as NH <sub>3</sub> -N, mg/l	<.2	<.2	6-01-94 SM17 4500
Nitrate as NO <sub>3</sub> -N, mg/l	<.02	0.037	5-17-94 EPA 353.1
Nitrite as NO <sub>2</sub> -N, mg/l	0.0050	0.0088	5-13-94 EPA 354.1
Phosphorus as P, mg/l	<.02	0.277	5-31-94 SM17 4500P
Sulfate as SO <sub>4</sub> , mg/l	688	133	5-18-94 SM17 4500
Sulfide as S, mg/l	<.1	<.1	5-18-94 EPA 376.1
Aluminum as Al, mg/l	<.01	3.16	5-19-94 EPA 200.7
Arsenic as As, mg/l	<.04	<.04	5-19-94 EPA 200.7
Barium as Ba, mg/l	0.012	0.103	5-19-94 EPA 200.7
Boron as B, mg/l	0.226	0.073	5-19-94 EPA 200.7
Cadmium as Cd, mg/l	<.01	<.01	5-19-94 EPA 200.7
Calcium as Ca, mg/l	60.3	56.3	5-16-94 EPA 200.7
Chromium as Cr, mg/l	<.01	<.01	5-19-94 EPA 200.7

NOTE: Sample temp. when submitted was 6.7°C on ice.

Approved By:



# CHEMTECH

ANALYTICAL LABORATORY

6100 S. STRATLER  
MURRAY, UTAH 84107  
PHONE: (801) 262-7299  
FAX: (801) 262-7378

DATE: 6-02-94

TO: Earthfax Engineering  
7324 S. 1300 E. STE 100  
Midvale, Utah 84047

INCORPORATED

MAY 18 2007

Div. of Oil, Gas & Mining

PROJECT: IPA Seep & Spring Survey

DATE SAMPLED: 5-12-94

DATE SUBMITTED: 5-13-94

## CERTIFICATE OF ANALYSIS

SAMPLE ID:  
LAB #:

14  
U007209

16A  
U007210

DATE  
ANALYZED/METHOD

### PARAMETER

Copper as Cu, mg/l	<.01	<.01	5-19-94 EPA 200.7
Iron as Fe, mg/l	0.174	3.81	5-19-94 EPA 200.7
Lead as Pb, mg/l	0.040	0.037	5-19-94 EPA 200.7
Magnesium as Mg, mg/l	105	53.6	5-16-94 EPA 200.7
Manganese as Mn, mg/l	<.01	0.101	5-19-94 EPA 200.7
Mercury as Hg, mg/l	<.0002	<.0002	5-17-94 EPA 245.1
Molybdenum as Mo, mg/l	<.04	<.04	5-19-94 EPA 200.7
Nickel as Ni, mg/l	<.01	<.01	5-19-94 EPA 200.7
Potassium as K, mg/l	1.6	0.67	5-16-94 EPA 200.7
Selenium as Se, mg/l	<.04	<.04	5-19-94 EPA 200.7
Sodium as Na, mg/l	302	106	5-16-94 EPA 200.7
Zinc as Zn, mg/l	0.031	0.023	5-19-94 EPA 200.7
TDS, mg/l	1,483	586	5-16-94 EPA 160.1
Hardness as CaCO <sub>3</sub> , mg/l	576	351	5-16-94 EPA 130.2

NOTE: Sample temp. when submitted was 6.7°C on ice.

Approved By: 



EARTHFAX ENGINEERING, INC.  
7324 South 1300 East  
Midvale, Utah 84047

WATER SAMPLE ANALYSIS REQUEST FORM

Sampling Company: EarthFax Engineering, Inc.	Sampling Personnel: JRP, CDH, RBG
Project Name: IPA Seep & Spring Survey	Project Number: UC-284-07
Field Sample Number: HC-2	Laboratory Sample Number:
Date Sampled: 5-12-94	Time Sampled: 1240
Analytical Laboratory: Chemtech	Date of Shipment/Delivery: 5-13-94

Container Type	Number of Bottles	Preservative(s)	Analyses Requested
PLASTIC QUART	2		SEE ATTACHED SHEET
PLASTIC PINT	2		

Special Requirements:
-----------------------

INCORPORATED

MAY 18 2007

Div. of Oil, Gas & Mining

EARTHFAX ENGINEERING, INC.  
7324 South 1300 East  
Midvale, Utah 84047

WATER SAMPLE ANALYSIS REQUEST FORM

Sampling Company: EarthFax Engineering, Inc.	Sampling Personnel: JRP, CDH, RBG
Project Name: IPA Seep & Spring Survey	Project Number: UC-284-07
Field Sample Number: HC-9	Laboratory Sample Number:
Date Sampled: 5-12-94	Time Sampled: 1000
Analytical Laboratory: Chemtech	Date of Shipment/Delivery: 5-13-94

Container Type	Number of Bottles	Preservative(s)	Analyses Requested
PLASTIC QUART	2		SEE ATTACHED SHEET
PLASTIC PINT	2		

Special Requirements:
-----------------------

INCORPORATED  
MAY 18 2007  
Div. of Oil, Gas & Mining

EARTHFAX ENGINEERING, INC.  
7324 South 1300 East  
Midvale, Utah 84047

WATER SAMPLE ANALYSIS REQUEST FORM

Sampling Company: EarthFax Engineering, Inc.	Sampling Personnel: JRP, CDH, RBG
Project Name: IPA Seep & Spring Survey	Project Number: UC-284-07
Field Sample Number: HC-11	Laboratory Sample Number:
Date Sampled: 5-12-94	Time Sampled: 1355
Analytical Laboratory: Chemtech	Date of Shipment/Delivery: 5-13-94

Container Type	Number of Bottles	Preservative(s)	Analyses Requested
PLASTIC QUART	2		SEE ATTACHED SHEET
PLASTIC PINT	2		

Special Requirements:
-----------------------

INCORPORATED  
MAY 18 2007  
Div. of Oil, Gas & Mining



EARTHFAX ENGINEERING, INC.  
7324 South 1300 East  
Midvale, Utah 84047

WATER SAMPLE ANALYSIS REQUEST FORM

Sampling Company: EarthFax Engineering, Inc.	Sampling Personnel: JRP, CDH, RBG
Project Name: IPA Seep & Spring Survey	Project Number: UC-284-07
Field Sample Number: <i>HC-13</i>	Laboratory Sample Number:
Date Sampled: 5-12-94	Time Sampled: <i>1440</i>
Analytical Laboratory: Chemtech	Date of Shipment/Delivery: 5-13-94

Container Type	Number of Bottles	Preservative(s)	Analyses Requested
PLASTIC QUART	2		SEE ATTACHED SHEET
PLASTIC PINT	2		

Special Requirements:
-----------------------

INCORPORATED

MAY 18 2007

Div. of Oil, Gas & Mining

EARTHFAX ENGINEERING, INC.  
7324 South 1300 East  
Midvale, Utah 84047

WATER SAMPLE ANALYSIS REQUEST FORM

Sampling Company: EarthFax Engineering, Inc.	Sampling Personnel: JRP, CDH, RBG
Project Name: IPA Seep & Spring Survey	Project Number: UC-284-07
Field Sample Number: HC-18	Laboratory Sample Number:
Date Sampled: 5-12-94	Time Sampled: 1116
Analytical Laboratory: Chemtech	Date of Shipment/Delivery: 5-13-94

Container Type	Number of Bottles	Preservative(s)	Analyses Requested
PLASTIC QUART	2		SEE ATTACHED SHEET
PLASTIC PINT	2		

Special Requirements:
-----------------------

INCORPORATED  
MAY 18 2007  
Div. of Oil, Gas & Mining

EARTHFAX ENGINEERING, INC.  
7324 South 1300 East  
Midvale, Utah 84047

WATER SAMPLE ANALYSIS REQUEST FORM

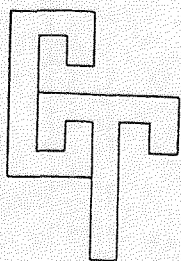
Sampling Company: EarthFax Engineering, Inc.	Sampling Personnel: JRP, CDH, RBG
Project Name: IPA Seep & Spring Survey	Project Number: UC-284-07
Field Sample Number: HCSW-1	Laboratory Sample Number:
Date Sampled: 5-12-94	Time Sampled: 1300
Analytical Laboratory: Chemtech	Date of Shipment/Delivery: 5-13-94

Container Type	Number of Bottles	Preservative(s)	Analyses Requested
PLASTIC QUART	2		SEE ATTACHED SHEET
PLASTIC PINT	2		

Special Requirements:

INCORPORATED  
MAY 18 2007  
Div. of Oil, Gas & Mining





# CHEMTECH

ANALYTICAL LABORATORY

6100 S. STRATLER  
MURRAY, UTAH 84107  
PHONE: (801) 262-7299  
FAX: (801) 262-7378

DATE: 6-02-94

TO: Earthfax Engineering  
7324 S. 1300 E. STE 100  
Midvale, Utah 84047

PROJECT: IPA Seep & Spring Survey

DATE SAMPLED: 5-12-94

DATE SUBMITTED: 5-13-94

INCORPORATED

MAY 18 2007

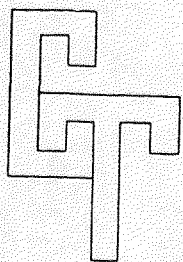
Div. of Oil, Gas & Mining

## CERTIFICATE OF ANALYSIS

SAMPLE ID: LAB #:	HC-2 <u>U007200</u>	HC-9 <u>U007201</u>	HC-11 <u>U007202</u>	DATE <u>ANALYZED/METHOD</u>
<u>PARAMETER</u>				
Carbonate as CO <sub>3</sub> , mg/l	42	18	25	5-20-94 SM17 2320B
Bicarbonate as HCO <sub>3</sub> , mg/l	450	496	407	5-20-94 SM17 2320B
Chloride as Cl, mg/l	17	24	12	5-19-94 EPA 325.3
Fluoride as F, mg/l	0.18	<.2	<.2	5-20-94 EPA 340.2
Ammonia as NH <sub>3</sub> -N, mg/l	<.2	<.2	<.2	6-01-94 SM17 4500
Nitrate as NO <sub>3</sub> -N, mg/l	0.319	0.159	0.043	5-17-94 EPA 353.1
Nitrite as NO <sub>2</sub> -N, mg/l	0.0050	0.0058	0.0086	5-13-94 EPA 354.1
Phosphorus as P, mg/l	<.02	0.029	0.083	5-31-94 SM17 4500P
Sulfate as SO <sub>4</sub> , mg/l	247	651	209	5-18-94 SM17 4500
Sulfide as S, mg/l	<.1	<.1	0.14	5-18-94 EPA 376.1
Aluminum as Al, mg/l	<.01	4.49	0.207	5-19-94 EPA 200.7
Arsenic as As, mg/l	<.04	<.04	<.04	5-19-94 EPA 200.7
Barium as Ba, mg/l	0.022	0.083	0.069	5-19-94 EPA 200.7
Boron as B, mg/l	0.147	0.180	0.099	5-19-94 EPA 200.7
Cadmium as Cd, mg/l	<.01	<.01	<.01	5-19-94 EPA 200.7
Calcium as Ca, mg/l	47.6	96.7	61.1	5-16-94 EPA 200.7
Chromium as Cr, mg/l	<.01	<.01	<.01	5-19-94 EPA 200.7

NOTE: Sample temp. when submitted was 6.7°C on ice.

Approved By: 



# CHEMTECH

ANALYTICAL LABORATORY

6100 S. STRATLER  
MURRAY, UTAH 84107  
PHONE: (801) 262-7299  
FAX: (801) 262-7378

DATE: 6-02-94

TO: Earthfax Engineering  
7324 S. 1300 E. STE 100  
Midvale, Utah 84047

PROJECT: IPA Seep & Spring Survey

DATE SAMPLED: 5-12-94

DATE SUBMITTED: 5-13-94

INCORPORATED

MAY 18 2007

Div. of Oil, Gas & Mining

## CERTIFICATE OF ANALYSIS

SAMPLE ID: LAB #:	HC-2 <u>U007200</u>	HC-9 <u>U007201</u>	HC-11 <u>U007202</u>	<u>DATE</u> <u>ANALYZED/METHOD</u>
<u>PARAMETER</u>				
Copper as Cu, mg/l	<.01	<.01	<.01	5-19-94 EPA 200.7
Iron as Fe, mg/l	0.189	5.61	0.345	5-19-94 EPA 200.7
Lead as Pb, mg/l	0.059	0.058	0.058	5-19-94 EPA 200.7
Magnesium as Mg, mg/l	68.2	139	71.2	5-16-94 EPA 200.7
Manganese as Mn, mg/l	<.01	0.204	<.01	5-19-94 EPA 200.7
Mercury as Hg, mg/l	<.0002	<.0002	<.0002	5-17-94 EPA 245.1
Molybdenum as Mo, mg/l	<.04	<.04	<.04	5-19-94 EPA 200.7
Nickel as Ni, mg/l	<.01	<.01	<.01	5-19-94 EPA 200.7
Potassium as K, mg/l	1.4	3.4	2.2	5-16-94 EPA 200.7
Selenium as Se, mg/l	<.04	<.04	<.04	5-19-94 EPA 200.7
Sodium as Na, mg/l	164	216	94.6	5-16-94 EPA 200.7
Zinc as Zn, mg/l	0.015	0.023	0.013	5-19-94 EPA 200.7
TDS, mg/l	838	1,395	740	5-16-94 EPA 160.1
Hardness as CaCO <sub>3</sub> , mg/l	404	828	460	5-16-94 EPA 130.2

NOTE: Sample temp. when submitted was 6.7°C on ice.

Approved By: \_\_\_\_\_

# CHEMTECH

ANALYTICAL LABORATORY

6100 S. STRATLER  
MURRAY, UTAH 84107  
PHONE: (801) 262-7299  
FAX: (801) 262-7378

DATE: 6-02-94

TO: Earthfax Engineering  
7324 S. 1300 E. STE 100  
Midvale, Utah 84047

PROJECT: IPA Seep & Spring Survey

DATE SAMPLED: 5-12-94

DATE SUBMITTED: 5-13-94

INCORPORATED

MAY 18 2007

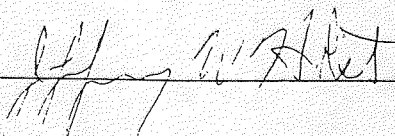
Div. of Oil, Gas & Mining

## CERTIFICATE OF ANALYSIS

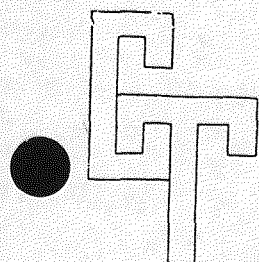
SAMPLE ID: LAB #:	HC-13 <u>U007203</u>	HC-18 <u>U007204</u>	HCSW-1 <u>U007205</u>	<u>DATE</u> <u>ANALYZED/METHOD</u>
<u>PARAMETER</u>				
Carbonate as CO <sub>3</sub> , mg/l	39	37	38	5-20-94 SM17 2320B
Bicarbonate as HCO <sub>3</sub> , mg/l	436	426	408	5-20-94 SM17 2320B
Chloride as Cl, mg/l	24	22	24	5-19-94 EPA 325.3
Fluoride as F, mg/l	0.19	0.24	0.25	5-20-94 EPA 340.2
Ammonia as NH <sub>3</sub> -N, mg/l	<.2	<.2	<.2	6-01-94 SM17 4500
Nitrate as NO <sub>3</sub> -N, mg/l	0.134	0.042	0.072	5-17-94 EPA 353.1
Nitrite as NO <sub>2</sub> -N, mg/l	0.0083	0.0058	0.0077	5-13-94 EPA 354.1
Phosphorus as P, mg/l	0.044	<.02	<.02	5-31-94 SM17 4500P
Sulfate as SO <sub>4</sub> , mg/l	691	229	288	5-18-94 SM17 4500
Sulfide as S, mg/l	<.1	<.1	<.1	5-18-94 EPA 376.1
Aluminum as Al, mg/l	0.428	0.194	0.260	5-19-94 EPA 200.7
Arsenic as As, mg/l	<.04	<.04	<.04	5-19-94 EPA 200.7
Barium as Ba, mg/l	0.047	0.064	0.043	5-19-94 EPA 200.7
Boron as B, mg/l	0.193	0.235	0.186	5-19-94 EPA 200.7
Cadmium as Cd, mg/l	<.01	<.01	<.01	5-19-94 EPA 200.7
Calcium as Ca, mg/l	74.1	45.8	48.4	5-16-94 EPA 200.7
Chromium as Cr, mg/l	<.01	<.01	<.01	5-19-94 EPA 200.7

NOTE: Sample temp. when submitted was 6.7°C on ice.

Approved By: \_\_\_\_\_







# CHEMTECH

ANALYTICAL LABORATORY

6100 S. STRATLER  
MURRAY, UTAH 84107  
PHONE: (801) 262-7299  
FAX: (801) 262-7378

DATE: 6-02-94

TO: Earthfax Engineering  
7324 S. 1300 E. STE 100  
Midvale, Utah 84047

PROJECT: IPA Seep & Spring Survey  
DATE SAMPLED: 5-12-94  
DATE SUBMITTED: 5-13-94

INCORPORATED

MAY 18 2007

Div. of Oil, Gas & Mining

## CERTIFICATE OF ANALYSIS

SAMPLE ID: LAB #:	HC-13 <u>U007203</u>	HC-18 <u>U007204</u>	HCSW-1 <u>U007205</u>	<u>DATE</u> <u>ANALYZED/METHOD</u>
<u>PARAMETER</u>				
Copper as Cu, mg/l	<.01	<.01	<.01	5-19-94 EPA 200.7
Iron as Fe, mg/l	0.737	0.728	0.422	5-19-94 EPA 200.7
Lead as Pb, mg/l	0.073	0.034	0.048	5-19-94 EPA 200.7
Magnesium as Mg, mg/l	120	54.5	61.6	5-16-94 EPA 200.7
Manganese as Mn, mg/l	0.015	0.017	0.016	5-19-94 EPA 200.7
Mercury as Hg, mg/l	<.0002	<.0002	<.0002	5-17-94 EPA 245.1
Molybdenum as Mo, mg/l	<.04	<.04	<.04	5-19-94 EPA 200.7
Nickel as Ni, mg/l	<.01	<.01	<.01	5-19-94 EPA 200.7
Potassium as K, mg/l	4.3	2.4	3.9	5-16-94 EPA 200.7
Selenium as Se, mg/l	<.04	<.04	<.04	5-19-94 EPA 200.7
Sodium as Na, mg/l	225	162	167	5-16-94 EPA 200.7
Zinc as Zn, mg/l	0.012	0.011	<.01	5-19-94 EPA 200.7
TDS, mg/l	1,435	777	880	5-16-94 EPA 160.1
Hardness as CaCO <sub>3</sub> , mg/l	705	356	394	5-16-94 EPA 130.2

NOTE: Sample temp. when submitted was 6.7°C on ice.

Approved By: \_\_\_\_\_

LOS ANGELES DEPARTMENT OF WATER AND POWER  
SOUTH LEASE PROPERTY  
SEEP AND SPRING DATA  
AUGUST 1994

SEEP/ SPRING Number	PH (units)	COND. (umhos/cm) @ 25 deg C	FLOW RATE (gpm)	TEMP (deg C)	COMMENTS
1	7.77	780	<0.5	16	
1A			SEEP		
1B			DRY		
2			DRY		
3			DRY		
3A			DRY		
3B			DRY		
3C			DRY		
4			DRY		
5			DRY		
6			SEEP		
7			SEEP		
8	7.74	915	<0.5	18	
8A			DRY		
8B			DRY		
9	8.15	925	<0.5	18	INCORPORATED
9R			DRY		
10	7.76	849	1	12	MAY 18 2007
11			WET		
12A	7.88	3130	SEEP	15	Div. of Oil, Gas & Mining
12B	7.64	1300	<0.12	9	
12C			WET		
12D			DRY		
12E			SEEP	10	
13			MOIST		
13A			DRY		
13B			MOIST		
13Z			MOIST		
14	8.28	2020	<0.5	23	
14A			DRY		
15			DRY		
15A			MOIST		
15B			DRY		
15C			DRY		
16A			DRY		
16B			DRY		
16C			DRY		
16Z	7.97	1000	<0.5	18	
17			DAMP		
17A			DRY		
17B			DRY		
18			WET		
19A			DRY		
19B			DRY		
19C			DRY		
20			SEEP		
22			MOIST		

INCORPORATED

MAY 18 2007

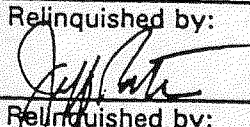
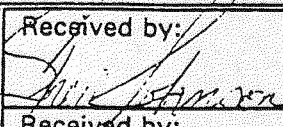
Div. of Oil, Gas &amp; Mining

EARTHFAX ENGINEERING INC.  
7324 SOUTH 1300 EAST  
Midvale, Utah 84047

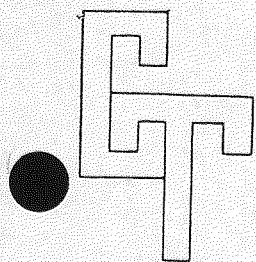
## CHAIN-OF-CUSTODY FORM

Sampling Company: EarthFax Engineering Inc.	Sampling Personnel: JRP, JDG, CDH
Project Name: IPA Seep & Spring	Project Number: UC-391-02
Analytical Laboratory: Chemtech	Date of Shipment/Delivery: 8-05-94
Method of Shipment/Delivery: In person	Airbill Number: NA

Field Sample No.	Date Sampled	Time Sampled	Sample Type	No. of Containers	Remarks
HC-11	8-4-94	1200	WATER	4	
SPRING-9	8-3-94	1600	WATER	4	
SPRING-13	8-3-94	1700	WATER	4	
SPRING-1	8-3-94	1800	WATER	4	
SPRING-14	8-3-94	1730	WATER	4	
H-4	8-4-94	900	WATER	4	
HSW-1	8-4-94	1000	WATER	4	
H-2	8-4-94	1100	WATER	4	
SPRING-10	8-3-94	1630	WATER	4	

Relinquished by: 	Date: Aug 5/94	Time: 3:00pm	Received by: 	Date: 8-5-94	Time: 3:00
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:





# CHEMTECH

ANALYTICAL LABORATORY

6100 S. STRATLER  
MURRAY, UTAH 84107  
PHONE: (801) 262-7299  
FAX: (801) 262-7378

DATE: 8-26-94

TO: EarthFax Engineering  
7324 So. 1300 E. STE 100  
Midvale, Utah 84047

INCORPORATED

MAY 18 2007

Div. of Oil, Gas & Mining

SAMPLE ID: Lab #U012591

PROJECT: IPA Seep & Spring: Spring 1

DATE SAMPLED: 8-03-94

DATE SUBMITTED: 8-05-94

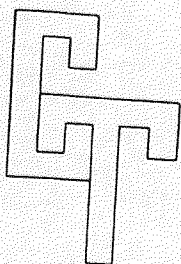
## CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	<u>DATE ANALYZED/METHOD</u>
TDS, mg/l	505	8-08-94 EPA 160.1
Hardness as CaCO <sub>3</sub> , mg/l	453	8-12-94 EPA 130.2
Carbonate as CO <sub>3</sub> , mg/l	<1	8-09-94 SM 2320B
Bicarbonate as HCO <sub>3</sub> , mg/l	466	8-09-94 SM 2320B
Chloride as Cl, mg/l	12	8-08-94 EPA 325.3
Fluoride as F, mg/l	<.2	8-09-94 EPA 340.2
Ammonia as NH <sub>3</sub> -N, mg/l	<.4	8-19-94 SM4500
Nitrate as NO <sub>3</sub> -N, mg/l	0.053	8-08-94 EPA 353.1
Nitrite as NO <sub>2</sub> -N, mg/l	*0.0090	8-06-94 EPA 354.1
Phosphorus as P (T), mg/l	0.368	8-10-94 SM4500
Sulfate as SO <sub>4</sub> , mg/l	112	8-15-94 SM4500
Sulfide as S, mg/l	<.1	8-08-94 EPA 376.1
Aluminum as Al (T), mg/l	2.14	8-09-94 EPA 200.7
Arsenic as As (T), mg/l	<.04	8-09-94 EPA 200.7
Barium as Ba (T), mg/l	0.210	8-09-94 EPA 200.7
Boron as B (T), mg/l	0.084	8-09-94 EPA 200.7
Cadmium as Cd (T), mg/l	<.01	8-09-94 EPA 200.7
Calcium as Ca (T), mg/l	92.8	8-10-94 EPA 200.7
Chromium as Cr (T), mg/l	<.01	8-09-94 EPA 200.7
Copper as Cu (T), mg/l	<.01	8-09-94 EPA 200.7

\*Run past holding time.

Approved By: \_\_\_\_\_

*Joel W. [Signature]*



# CHEMTECH

ANALYTICAL LABORATORY

6100 S. STRATLER  
MURRAY, UTAH 84107  
PHONE: (801) 262-7299  
FAX: (801) 262-7378

DATE: 8-26-94

TO: EarthFax Engineering  
7324 So. 1300 E. STE 100  
Midvale, Utah 84047

SAMPLE ID: Lab #U012591  
PROJECT: IPA Seep & Spring: Spring 1  
DATE SAMPLED: 8-03-94  
DATE SUBMITTED: 8-05-94

INCORPORATED

MAY 18 2007

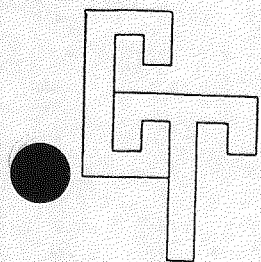
Div. of Oil, Gas & Mining

## CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	<u>DATE ANALYZED/METHOD</u>
Iron as Fe (T), mg/l	4.89	8-09-94 EPA 200.7
Lead as Pb (T), mg/l	<.02	8-09-94 EPA 200.7
Magnesium as Mg (T), mg/l	56.6	8-10-94 EPA 200.7
Manganese as Mn (T), mg/l	1.29	8-09-94 EPA 200.7
Mercury as Hg (T), mg/l	<.0002	8-09-94 EPA 245.1
Molybdenum as Mo (T), mg/l	<.04	8-09-94 EPA 200.7
Nickel as Ni (T), mg/l	<.01	8-09-94 EPA 200.7
Potassium as K (T), mg/l	2.36	8-10-94 EPA 200.7
Selenium as Se (T), mg/l	<.04	8-09-94 EPA 200.7
Sodium as Na (T), mg/l	53.5	8-10-94 EPA 200.7
Zinc as Zn (T), mg/l	0.028	8-09-94 EPA 200.7

NOTE: Sample temp. when submitted was 15.2°C on ice.

Approved By:



# CHEMTECH

ANALYTICAL LABORATORY

6100 S. STRATLER  
MURRAY, UTAH 84107  
PHONE: (801) 262-7299  
FAX: (801) 262-7378

DATE: 8-26-94

TO: EarthFax Engineering  
7324 So. 1300 E. STE 100  
Midvale, Utah 84047

SAMPLE ID: Lab #U012589

PROJECT: IPA Seep & Spring: Spring 9

DATE SAMPLED: 8-03-94

DATE SUBMITTED: 8-05-94

INCORPORATED

MAY 18 2007

Div. of Oil, Gas & Mining

## CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	<u>DATE ANALYZED/METHOD</u>
TDS, mg/l	621	8-08-94 EPA 160.1
Hardness as CaCO <sub>3</sub> , mg/l	405	8-12-94 EPA 130.2
Carbonate as CO <sub>3</sub> , mg/l	<1	8-09-94 SM 2320B
Bicarbonate as HCO <sub>3</sub> , mg/l	561	8-09-94 SM 2320B
Chloride as Cl, mg/l	12.5	8-08-94 EPA 325.3
Fluoride as F, mg/l	<.2	8-09-94 EPA 340.2
Ammonia as NH <sub>3</sub> -N, mg/l	<.4	8-19-94 SM4500
Nitrate as NO <sub>3</sub> -N, mg/l	<.02	8-08-94 EPA 353.1
Nitrite as NO <sub>2</sub> -N, mg/l	*0.0090	8-06-94 EPA 354.1
Phosphorus as P (T), mg/l	0.038	8-10-94 SM4500
Sulfate as SO <sub>4</sub> , mg/l	101	8-15-94 SM4500
Sulfide as S, mg/l	0.38	8-08-94 EPA 376.1
Aluminum as Al (T), mg/l	0.058	8-09-94 EPA 200.7
Arsenic as As (T), mg/l	<.04	8-09-94 EPA 200.7
Barium as Ba (T), mg/l	0.124	8-09-94 EPA 200.7
Boron as B (T), mg/l	0.061	8-09-94 EPA 200.7
Cadmium as Cd (T), mg/l	<.01	8-09-94 EPA 200.7
Calcium as Ca (T), mg/l	69.8	8-10-94 EPA 200.7
Chromium as Cr (T), mg/l	<.01	8-09-94 EPA 200.7
Copper as Cu (T), mg/l	<.01	8-09-94 EPA 200.7

\*Run past holding time.

Approved By: \_\_\_\_\_





# CHEMTECH

ANALYTICAL LABORATORY

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PHONE: (801) 262-7299  
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DATE: 8-26-94

TO: EarthFax Engineering  
7324 So. 1300 E. STE 100  
Midvale, Utah 84047

SAMPLE ID: Lab #U012589

PROJECT: IPA Seep & Spring: Spring 9

DATE SAMPLED: 8-03-94

DATE SUBMITTED: 8-05-94

## CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	<u>DATE ANALYZED/METHOD</u>
Iron as Fe (T), mg/l	0.056	8-09-94 EPA 200.7
Lead as Pb (T), mg/l	<.02	8-09-94 EPA 200.7
Magnesium as Mg (T), mg/l	61.1	8-10-94 EPA 200.7
Manganese as Mn (T), mg/l	0.153	8-09-94 EPA 200.7
Mercury as Hg (T), mg/l	<.0002	8-09-94 EPA 245.1
Molybdenum as Mo (T), mg/l	<.04	8-09-94 EPA 200.7
Nickel as Ni (T), mg/l	<.01	8-09-94 EPA 200.7
Potassium as K (T), mg/l	1.88	8-10-94 EPA 200.7
Selenium as Se (T), mg/l	<.04	8-09-94 EPA 200.7
Sodium as Na (T), mg/l	74.9	8-10-94 EPA 200.7
Zinc as Zn (T), mg/l	0.145	8-09-94 EPA 200.7

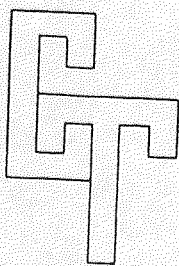
NOTE: Sample temp. when submitted was 15.2°C on ice.

Approved By: 

INCORPORATED

MAY 18 2007

Div. of Oil, Gas & Mining



# CHEMTECH

ANALYTICAL LABORATORY

6100 S. STRATLER  
MURRAY, UTAH 84107  
PHONE: (801) 262-7299  
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DATE: 8-26-94

TO: EarthFax Engineering  
7324 So. 1300 E. STE 100  
Midvale, Utah 84047

INCORPORATED

MAY 18 2007

Div. of Oil, Gas & Mining

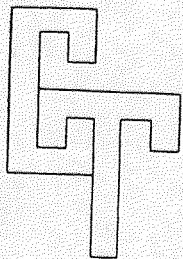
SAMPLE ID: Lab #U012596  
PROJECT: IPA Seep & Spring: Spring 10  
DATE SAMPLED: 8-04-94  
DATE SUBMITTED: 8-05-94

## CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	<u>DATE ANALYZED/METHOD</u>
TDS, mg/l	637	8-08-94 EPA 160.1
Hardness as CaCO <sub>3</sub> , mg/l	425	8-12-94 EPA 130.2
Carbonate as CO <sub>3</sub> , mg/l	<1	8-09-94 SM 2320B
Bicarbonate as HCO <sub>3</sub> , mg/l	466	8-09-94 SM 2320B
Chloride as Cl, mg/l	11	8-08-94 EPA 325.3
Fluoride as F, mg/l	<.2	8-09-94 EPA 340.2
Ammonia as NH <sub>3</sub> -N, mg/l	<.4	8-19-94 SM4500
Nitrate as NO <sub>3</sub> -N, mg/l	0.030	8-08-94 EPA 353.1
Nitrite as NO <sub>2</sub> -N, mg/l	<.005	8-06-94 EPA 354.1
Phosphorus as P (T), mg/l	0.041	8-10-94 SM4500
Sulfate as SO <sub>4</sub> , mg/l	194	8-15-94 SM4500
Sulfide as S, mg/l	<.1	8-08-94 EPA 376.1
Aluminum as Al (T), mg/l	0.496	8-09-94 EPA 200.7
Arsenic as As (T), mg/l	<.04	8-09-94 EPA 200.7
Barium as Ba (T), mg/l	0.037	8-09-94 EPA 200.7
Boron as B (T), mg/l	0.038	8-09-94 EPA 200.7
Cadmium as Cd (T), mg/l	<.01	8-09-94 EPA 200.7
Calcium as Ca (T), mg/l	78.9	8-10-94 EPA 200.7
Chromium as Cr (T), mg/l	<.01	8-09-94 EPA 200.7
Copper as Cu (T), mg/l	<.01	8-09-94 EPA 200.7

Approved By: \_\_\_\_\_

*Joe W. Kern*



# CHEMTECH

ANALYTICAL LABORATORY

6100 S. STRATLER  
MURRAY, UTAH 84107  
PHONE: (801) 262-7299  
FAX: (801) 262-7378

DATE: 8-26-94

TO: EarthFax Engineering  
7324 So. 1300 E. STE 100  
Midvale, Utah 84047

SAMPLE ID: Lab #U012596

PROJECT: IPA Seep & Spring: Spring 10

DATE SAMPLED: 8-04-94

DATE SUBMITTED: 8-05-94

INCORPORATED

MAY 18 2007

Div. of Oil, Gas & Mining

## CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	<u>DATE ANALYZED/METHOD</u>
Iron as Fe (T), mg/l	0.561	8-09-94 EPA 200.7
Lead as Pb (T), mg/l	<.02	8-09-94 EPA 200.7
Magnesium as Mg (T), mg/l	65.4	8-10-94 EPA 200.7
Manganese as Mn (T), mg/l	0.073	8-09-94 EPA 200.7
Mercury as Hg (T), mg/l	<.0002	8-09-94 EPA 245.1
Molybdenum as Mo (T), mg/l	<.04	8-09-94 EPA 200.7
Nickel as Ni (T), mg/l	<.01	8-09-94 EPA 200.7
Potassium as K (T), mg/l	1.13	8-10-94 EPA 200.7
Selenium as Se (T), mg/l	<.04	8-09-94 EPA 200.7
Sodium as Na (T), mg/l	63.5	8-10-94 EPA 200.7
Zinc as Zn (T), mg/l	<.01	8-09-94 EPA 200.7

NOTE: Sample temp. when submitted was 15.2°C on ice.

Approved By: \_\_\_\_\_





# CHEMTECH

ANALYTICAL LABORATORY

6100 S. STRATLER  
MURRAY, UTAH 84107  
PHONE: (801) 262-7299  
FAX: (801) 262-7378

DATE: 8-26-94

TO: EarthFax Engineering  
7324 So. 1300 E. STE 100  
Midvale, Utah 84047

INCORPORATED

MAY 18 2007

Div. of Oil, Gas & Mining

SAMPLE ID: Lab #U012592

PROJECT: IPA Seep & Spring: Spring 14

DATE SAMPLED: 8-03-94

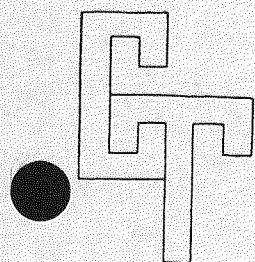
DATE SUBMITTED: 8-05-94

## CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	<u>DATE ANALYZED/METHOD</u>
TDS, mg/l	1,460	8-08-94 EPA 160.1
Hardness as CaCO <sub>3</sub> , mg/l	553	8-12-94 EPA 130.2
Carbonate as CO <sub>3</sub> , mg/l	5	8-09-94 SM 2320B
Bicarbonate as HCO <sub>3</sub> , mg/l	552	8-09-94 SM 2320B
Chloride as Cl, mg/l	43	8-08-94 EPA 325.3
Fluoride as F, mg/l	0.26	8-09-94 EPA 340.2
Ammonia as NH <sub>3</sub> -N, mg/l	<.4	8-19-94 SM4500
Nitrate as NO <sub>3</sub> -N, mg/l	<.02	8-08-94 EPA 353.1
Nitrite as NO <sub>2</sub> -N, mg/l	*0.0063	8-06-94 EPA 354.1
Phosphorus as P (T), mg/l	<.02	8-10-94 SM4500
Sulfate as SO <sub>4</sub> , mg/l	681	8-15-94 SM4500
Sulfide as S, mg/l	<.1	8-08-94 EPA 376.1
Aluminum as Al (T), mg/l	0.086	8-09-94 EPA 200.7
Arsenic as As (T), mg/l	<.04	8-09-94 EPA 200.7
Barium as Ba (T), mg/l	0.017	8-09-94 EPA 200.7
Boron as B (T), mg/l	0.191	8-09-94 EPA 200.7
Cadmium as Cd (T), mg/l	<.01	8-09-94 EPA 200.7
Calcium as Ca (T), mg/l	60.3	8-10-94 EPA 200.7
Chromium as Cr (T), mg/l	<.01	8-09-94 EPA 200.7
Copper as Cu (T), mg/l	<.01	8-09-94 EPA 200.7

\*Run past holding time.

Approved By: 



# CHEMTECH

ANALYTICAL LABORATORY

6100 S. STRATLER  
MURRAY, UTAH 84107  
PHONE: (801) 262-7299  
FAX: (801) 262-7378

DATE: 8-26-94

TO: EarthFax Engineering  
7324 So. 1300 E. STE 100  
Midvale, Utah 84047

SAMPLE ID: Lab #U012592

PROJECT: IPA Seep & Spring: Spring 14

DATE SAMPLED: 8-03-94

DATE SUBMITTED: 8-05-94

## CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	<u>DATE ANALYZED/METHOD</u>
Iron as Fe (T), mg/l	0.092	8-09-94 EPA 200.7
Lead as Pb (T), mg/l	<.02	8-09-94 EPA 200.7
Magnesium as Mg (T), mg/l	104	8-10-94 EPA 200.7
Manganese as Mn (T), mg/l	<.01	8-09-94 EPA 200.7
Mercury as Hg (T), mg/l	<.0002	8-09-94 EPA 245.1
Molybdenum as Mo (T), mg/l	<.04	8-09-94 EPA 200.7
Nickel as Ni (T), mg/l	<.01	8-09-94 EPA 200.7
Potassium as K (T), mg/l	1.37	8-10-94 EPA 200.7
Selenium as Se (T), mg/l	<.04	8-09-94 EPA 200.7
Sodium as Na (T), mg/l	292	8-10-94 EPA 200.7
Zinc as Zn (T), mg/l	<.01	8-09-94 EPA 200.7

NOTE: Sample temp. when submitted was 15.2°C on ice.

Approved By: \_\_\_\_\_

INCORPORATED

MAY 18 2007

Div. of Oil, Gas & Mining

LOS ANGELES DEPARTMENT OF WATER AND POWER  
HORSE CANYON MINE  
SEEP AND SPRING DATA  
AUGUST 1994

SEEP/SPRING Number	PH (units)	CONDUCTIVITY (umhos/cm @ 25 deg C)	FLOW RATE (gpm)	TEMPERATURE (deg C)
HC-2	8.23	1190	15	4
HC-4	8.40	1120	<0.1	18
HC-9			DRY	
HC-11	7.74	1244	<0.5	8.5
HC-13	7.77	1980	<0.5	15
HC-18			MOIST	
SURFACE WATER				
Number				
HCSW-1	7.77	1260	1.8	13
HCSW-2			DRY	
HCSW-3			DRY	

INCORPORATED

MAY 18 2007

Div. of Oil, Gas & Mining

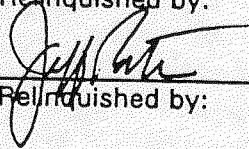
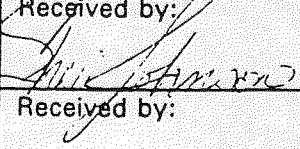


EARTHFAX ENGINEERING INC.  
7324 SOUTH 1300 EAST  
Midvale, Utah 84047

CHAIN-OF-CUSTODY FORM

Sampling Company: EarthFax Engineering Inc.	Sampling Personnel: JRP, JDG, CDH
Project Name: IPA Seep & Spring	Project Number: UC-391-02
Analytical Laboratory: Chemtech	Date of Shipment/Delivery: 8-05-94
Method of Shipment/Delivery: In person	Airbill Number: NA

Field Sample No.	Date Sampled	Time Sampled	Sample Type	No. of Containers	Remarks
HC-11	8-4-94	1200	WATER	4	
SPRING-9	8-3-94	1600	WATER	4	
SPRING-13	8-3-94	1700	WATER	4	
SPRING-1	8-3-94	1800	WATER	4	
SPRING-14	8-3-94	1730	WATER	4	
H-4	8-4-94	900	WATER	4	
HSW-1	8-4-94	1000	WATER	4	
H-2	8-4-94	1100	WATER	4	
SPRING-10	8-3-94	1630	WATER	4	

Relinquished by: 	Date: Aug 5/94	Time: 3:00 PM	Received by: 	Date: 8-5-94	Time: 3:00
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

INCORPORATED

MAY 18 2007

Div. of Oil, Gas & Mining

FPA Springs

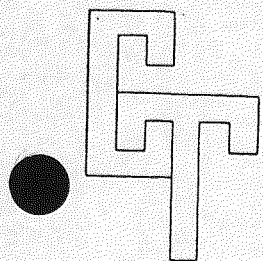
Aug 8, 1994

<u>Sample</u>	<u>P.H</u>	<u>Cond</u>
14	8.28	2020
Hsw-1	7.77	1260
HC-10	7.74	1244
10	7.76	849
8	7.74	915
13	7.77	1980
1	7.77	780
8-1-94 - H-4	8.09	1004
8-4-94 H-4	8.40	1120
16	7.97	1000
12B	7.64	1300
CK-1 DS	7.74	1130
H-2	8.23	1190
CK-2	7.60	1290
12-D	7.88	3130
9	8.15	925

INCORPORATED

MAY 18 2007

Div. of Oil, Gas &amp; Mining



# CHEMTECH

ANALYTICAL LABORATORY

6100 S. STRATLER  
MURRAY, UTAH 84107  
PHONE: (801) 262-7299  
FAX: (801) 262-7378

DATE: 8-26-94

TO: EarthFax Engineering  
7324 So. 1300 E. STE 100  
Midvale, Utah 84047

SAMPLE ID: Lab #U012594

PROJECT: IPA Seep & Spring: HSW-1

DATE SAMPLED: 8-04-94

DATE SUBMITTED: 8-05-94

INCORPORATED

MAY 18 2007

Div. of Oil, Gas & Mining

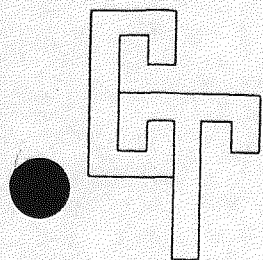
## CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	<u>DATE ANALYZED/METHOD</u>
TDS, mg/l	1,010	8-08-94 EPA 160.1
Hardness as CaCO <sub>3</sub> , mg/l	453	8-12-94 EPA 130.2
Carbonate as CO <sub>3</sub> , mg/l	8	8-09-94 SM 2320B
Bicarbonate as HCO <sub>3</sub> , mg/l	646	8-09-94 SM 2320B
Chloride as Cl, mg/l	21.5	8-08-94 EPA 325.3
Fluoride as F, mg/l	0.27	8-09-94 EPA 340.2
Ammonia as NH <sub>3</sub> -N, mg/l	<.4	8-19-94 SM4500
Nitrate as NO <sub>3</sub> -N, mg/l	<.02	8-08-94 EPA 353.1
Nitrite as NO <sub>2</sub> -N, mg/l	0.0052	8-06-94 EPA 354.1
Phosphorus as P (T), mg/l	0.041	8-10-94 SM4500
Sulfate as SO <sub>4</sub> , mg/l	331	8-15-94 SM4500
Sulfide as S, mg/l	<.1	8-08-94 EPA 376.1
Aluminum as Al (T), mg/l	0.277	8-09-94 EPA 200.7
Arsenic as As (T), mg/l	<.04	8-09-94 EPA 200.7
Barium as Ba (T), mg/l	0.049	8-09-94 EPA 200.7
Boron as B (T), mg/l	0.171	8-09-94 EPA 200.7
Cadmium as Cd (T), mg/l	<.01	8-09-94 EPA 200.7
Calcium as Ca (T), mg/l	60.2	8-10-94 EPA 200.7
Chromium as Cr (T), mg/l	<.01	8-09-94 EPA 200.7
Copper as Cu (T), mg/l	<.01	8-09-94 EPA 200.7

Approved By: \_\_\_\_\_

*Joel W. Winters*





# CHEMTECH

ANALYTICAL LABORATORY

6100 S. STRATLER  
MURRAY, UTAH 84107  
PHONE: (801) 262-7299  
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DATE: 8-26-94

TO: EarthFax Engineering  
7324 So. 1300 E. STE 100  
Midvale, Utah 84047

SAMPLE ID: Lab #U012594

PROJECT: IPA Seep & Spring: HSW-1

DATE SAMPLED: 8-04-94

DATE SUBMITTED: 8-05-94

## CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	<u>DATE ANALYZED/METHOD</u>
Iron as Fe (T), mg/l	0.301	8-09-94 EPA 200.7
Lead as Pb (T), mg/l	<.02	8-09-94 EPA 200.7
Magnesium as Mg (T), mg/l	74.2	8-10-94 EPA 200.7
Manganese as Mn (T), mg/l	0.020	8-09-94 EPA 200.7
Mercury as Hg (T), mg/l	<.0002	8-09-94 EPA 245.1
Molybdenum as Mo (T), mg/l	<.04	8-09-94 EPA 200.7
Nickel as Ni (T), mg/l	<.01	8-09-94 EPA 200.7
Potassium as K (T), mg/l	5.23	8-10-94 EPA 200.7
Selenium as Se (T), mg/l	<.04	8-09-94 EPA 200.7
Sodium as Na (T), mg/l	197	8-10-94 EPA 200.7
Zinc as Zn (T), mg/l	<.01	8-09-94 EPA 200.7

NOTE: Sample temp. when submitted was 15.2°C on ice.

INCORPORATED

MAY 18 2007

Div. of Oil, Gas & Mining

Approved By: \_\_\_\_\_



# CHEMTECH

ANALYTICAL LABORATORY

6100 S. STRATLER  
MURRAY, UTAH 84107  
PHONE: (801) 262-7299  
FAX: (801) 262-7378

DATE: 8-26-94

TO: EarthFax Engineering  
7324 So. 1300 E. STE 100  
Midvale, Utah 84047

INCORPORATED

MAY 18 2007

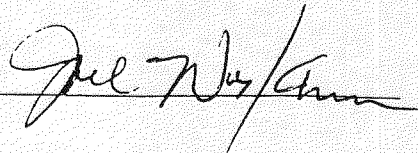
Div. of Oil, Gas & Mining

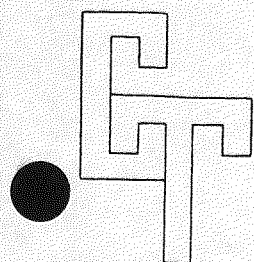
SAMPLE ID: Lab #U012595 *HC-2*  
PROJECT: IPA Seep & Spring: H-2  
DATE SAMPLED: 8-04-94  
DATE SUBMITTED: 8-05-94

## CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	<u>DATE ANALYZED/METHOD</u>
TDS, mg/l	817	8-08-94 EPA 160.1
Hardness as CaCO <sub>3</sub> , mg/l	385	8-12-94 EPA 130.2
Carbonate as CO <sub>3</sub> , mg/l	<1	8-09-94 SM 2320B
Bicarbonate as HCO <sub>3</sub> , mg/l	559	8-09-94 SM 2320B
Chloride as Cl, mg/l	17	8-08-94 EPA 325.3
Fluoride as F, mg/l	<.2	8-09-94 EPA 340.2
Ammonia as NH <sub>3</sub> -N, mg/l	<.4	8-19-94 SM4500
Nitrate as NO <sub>3</sub> -N, mg/l	0.279	8-08-94 EPA 353.1
Nitrite as NO <sub>2</sub> -N, mg/l	<.005	8-06-94 EPA 354.1
Phosphorus as P (T), mg/l	<.02	8-10-94 SM4500
Sulfate as SO <sub>4</sub> , mg/l	253	8-15-94 SM4500
Sulfide as S, mg/l	<.1	8-08-94 EPA 376.1
Aluminum as Al (T), mg/l	<.01	8-09-94 EPA 200.7
Arsenic as As (T), mg/l	<.04	8-09-94 EPA 200.7
Barium as Ba (T), mg/l	0.020	8-09-94 EPA 200.7
Boron as B (T), mg/l	0.119	8-09-94 EPA 200.7
Cadmium as Cd (T), mg/l	<.01	8-09-94 EPA 200.7
Calcium as Ca (T), mg/l	46.8	8-10-94 EPA 200.7
Chromium as Cr (T), mg/l	<.01	8-09-94 EPA 200.7
Copper as Cu (T), mg/l	<.01	8-09-94 EPA 200.7

Approved By: \_\_\_\_\_





# CHEMTECH

ANALYTICAL LABORATORY

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DATE: 8-26-94

TO: EarthFax Engineering  
7324 So. 1300 E. STE 100  
Midvale, Utah 84047

SAMPLE ID: Lab #U012595 *HC-2*  
PROJECT: IPA Seep & Spring: H-2  
DATE SAMPLED: 8-04-94  
DATE SUBMITTED: 8-05-94

## CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	<u>DATE ANALYZED/METHOD</u>
Iron as Fe (T), mg/l	<.01	8-09-94 EPA 200.7
Lead as Pb (T), mg/l	<.02	8-09-94 EPA 200.7
Magnesium as Mg (T), mg/l	67.9	8-10-94 EPA 200.7
Manganese as Mn (T), mg/l	<.01	8-09-94 EPA 200.7
Mercury as Hg (T), mg/l	<.0002	8-09-94 EPA 245.1
Molybdenum as Mo (T), mg/l	<.04	8-09-94 EPA 200.7
Nickel as Ni (T), mg/l	<.01	8-09-94 EPA 200.7
Potassium as K (T), mg/l	1.74	8-10-94 EPA 200.7
Selenium as Se (T), mg/l	0.012	8-09-94 EPA 200.7
Sodium as Na (T), mg/l	157	8-10-94 EPA 200.7
Zinc as Zn (T), mg/l	<.01	8-09-94 EPA 200.7

NOTE: Sample temp. when submitted was 15.2°C on ice.

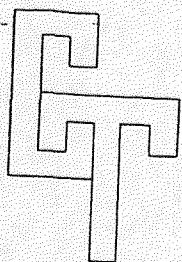
INCORPORATED

MAY 18 2007

Div. of Oil, Gas & Mining

Approved By: *Joe W. Kinn*





# CHEMTECH

ANALYTICAL LABORATORY

6100 S. STRATLER  
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DATE: 8-26-94

TO: EarthFax Engineering  
7324 So. 1300 E. STE 100  
Midvale, Utah 84047

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MAY 18 2007

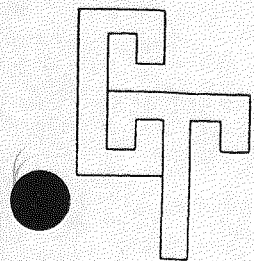
Div. of Oil, Gas & Mining

SAMPLE ID: Lab #U012593 *HC-4*  
PROJECT: IPA Seep & Spring: H-4  
DATE SAMPLED: 8-04-94  
DATE SUBMITTED: 8-05-94

## CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	<u>DATE ANALYZED/METHOD</u>
TDS, mg/l	783	8-08-94 EPA 160.1
Hardness as CaCO <sub>3</sub> , mg/l	448	8-12-94 EPA 130.2
Carbonate as CO <sub>3</sub> , mg/l	2	8-09-94 SM 2320B
Bicarbonate as HCO <sub>3</sub> , mg/l	593	8-09-94 SM 2320B
Chloride as Cl, mg/l	13	8-08-94 EPA 325.3
Fluoride as F, mg/l	<.2	8-09-94 EPA 340.2
Ammonia as NH <sub>3</sub> -N, mg/l	<.4	8-19-94 SM4500
Nitrate as NO <sub>3</sub> -N, mg/l	0.036	8-08-94 EPA 353.1
Nitrite as NO <sub>2</sub> -N, mg/l	0.0055	8-06-94 EPA 354.1
Phosphorus as P (T), mg/l	<.02	8-10-94 SM4500
Sulfate as SO <sub>4</sub> , mg/l	215	8-15-94 SM4500
Sulfide as S, mg/l	0.29	8-08-94 EPA 376.1
Aluminum as Al (T), mg/l	0.048	8-09-94 EPA 200.7
Arsenic as As (T), mg/l	<.04	8-09-94 EPA 200.7
Barium as Ba (T), mg/l	0.066	8-09-94 EPA 200.7
Boron as B (T), mg/l	0.125	8-09-94 EPA 200.7
Cadmium as Cd (T), mg/l	<.01	8-09-94 EPA 200.7
Calcium as Ca (T), mg/l	62.2	8-10-94 EPA 200.7
Chromium as Cr (T), mg/l	<.01	8-09-94 EPA 200.7
Copper as Cu (T), mg/l	<.01	8-09-94 EPA 200.7

Approved By: *Joel Washburn*



# CHEMTECH

ANALYTICAL LABORATORY

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DATE: 8-26-94

TO: EarthFax Engineering  
7324 So. 1300 E. STE 100  
Midvale, Utah 84047

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MAY 18 2007

Div. of Oil, Gas & Mining

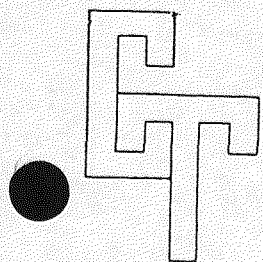
SAMPLE ID: Lab #U012593 HC-4  
PROJECT: IPA Seep & Spring: H-4  
DATE SAMPLED: 8-04-94  
DATE SUBMITTED: 8-05-94

## CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	<u>DATE ANALYZED/METHOD</u>
Iron as Fe (T), mg/l	0.069	8-09-94 EPA 200.7
Lead as Pb (T), mg/l	<.02	8-09-94 EPA 200.7
Magnesium as Mg (T), mg/l	77.5	8-10-94 EPA 200.7
Manganese as Mn (T), mg/l	0.010	8-09-94 EPA 200.7
Mercury as Hg (T), mg/l	<.0002	8-09-94 EPA 245.1
Molybdenum as Mo (T), mg/l	<.04	8-09-94 EPA 200.7
Nickel as Ni (T), mg/l	<.01	8-09-94 EPA 200.7
Potassium as K (T), mg/l	3.15	8-10-94 EPA 200.7
Selenium as Se (T), mg/l	<.04	8-09-94 EPA 200.7
Sodium as Na (T), mg/l	123	8-10-94 EPA 200.7
Zinc as Zn (T), mg/l	<.01	8-09-94 EPA 200.7

NOTE: Sample temp. when submitted was 15.2°C on ice.

Approved By: \_\_\_\_\_



# CHEMTECH

ANALYTICAL LABORATORY

6100 S. STRATLER  
MURRAY, UTAH 84107  
PHONE: (801) 262-7299  
FAX: (801) 262-7378

DATE: 8-26-94

TO: EarthFax Engineering  
7324 So. 1300 E. STE 100  
Midvale, Utah 84047

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MAY 11 8 2007

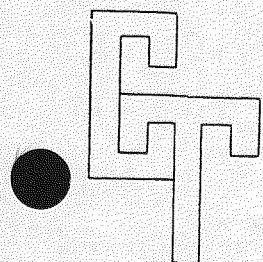
Div. of Oil, Gas & Mining

SAMPLE ID: Lab #U012588 HC-11  
PROJECT: IPA Seep & Spring: HC-11  
DATE SAMPLED: 8-04-94  
DATE SUBMITTED: 8-05-94

## CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	<u>DATE ANALYZED/METHOD</u>
TDS, mg/l	806	8-08-94 EPA 160.1
Hardness as CaCO <sub>3</sub> , mg/l	945	8-12-94 EPA 130.2
Carbonate as CO <sub>3</sub> , mg/l	<1	8-09-94 SM 2320B
Bicarbonate as HCO <sub>3</sub> , mg/l	653	8-09-94 SM 2320B
Chloride as Cl, mg/l	14	8-08-94 EPA 325.3
Fluoride as F, mg/l	<.2	8-09-94 EPA 340.2
Ammonia as NH <sub>3</sub> -N, mg/l	<.4	8-19-94 SM4500
Nitrate as NO <sub>3</sub> -N, mg/l	<.02	8-08-94 EPA 353.1
Nitrite as NO <sub>2</sub> -N, mg/l	0.014	8-06-94 EPA 354.1
Phosphorus as P (T), mg/l	2.11	8-10-94 SM4500
Sulfate as SO <sub>4</sub> , mg/l	258	8-15-94 SM4500
Sulfide as S, mg/l	<.1	8-08-94 EPA 376.1
Aluminum as Al (T), mg/l	40.9	8-09-94 EPA 200.7
Arsenic as As (T), mg/l	<.04	8-09-94 EPA 200.7
Barium as Ba (T), mg/l	0.664	8-09-94 EPA 200.7
Boron as B (T), mg/l	0.106	8-09-94 EPA 200.7
Cadmium as Cd (T), mg/l	<.01	8-09-94 EPA 200.7
Calcium as Ca (T), mg/l	200	8-10-94 EPA 200.7
Chromium as Cr (T), mg/l	0.042	8-09-94 EPA 200.7
Copper as Cu (T), mg/l	0.057	8-09-94 EPA 200.7





# CHEMTECH

ANALYTICAL LABORATORY

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DATE: 8-26-94

TO: EarthFax Engineering  
7324 So. 1300 E. STE 100  
Midvale, Utah 84047

INCORPORATED

MAY 18 2007

Div. of Oil, Gas & Mining

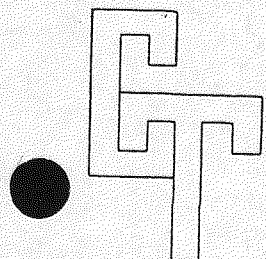
SAMPLE ID: Lab #U012588  
PROJECT: IPA Seep & Spring: HC-11  
DATE SAMPLED: 8-04-94  
DATE SUBMITTED: 8-05-94

## CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	<u>DATE ANALYZED/METHOD</u>
Iron as Fe (T), mg/l	48.5	8-09-94 EPA 200.7
Lead as Pb (T), mg/l	0.028	8-09-94 EPA 200.7
Magnesium as Mg (T), mg/l	108	8-10-94 EPA 200.7
Manganese as Mn (T), mg/l	1.23	8-09-94 EPA 200.7
Mercury as Hg (T), mg/l	<.0002	8-09-94 EPA 245.1
Molybdenum as Mo (T), mg/l	<.04	8-09-94 EPA 200.7
Nickel as Ni (T), mg/l	0.048	8-09-94 EPA 200.7
Potassium as K (T), mg/l	4.05	8-10-94 EPA 200.7
Selenium as Se (T), mg/l	<.04	8-09-94 EPA 200.7
Sodium as Na (T), mg/l	108	8-10-94 EPA 200.7
Zinc as Zn (T), mg/l	0.132	8-09-94 EPA 200.7

NOTE: Sample temp. when submitted was 15.2°C on ice.

Approved By: \_\_\_\_\_



# CHEMTECH

ANALYTICAL LABORATORY

6100 S. STRATLER  
MURRAY, UTAH 84107  
PHONE: (801) 262-7299  
FAX: (801) 262-7378

DATE: 8-26-94

TO: EarthFax Engineering  
7324 So. 1300 E. STE 100  
Midvale, Utah 84047

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MAY 18 2007

Div. of Oil, Gas & Mining

SAMPLE ID: Lab #U012590

PROJECT: IPA Seep & Spring: Spring 13 *HC-13*

DATE SAMPLED: 8-03-94

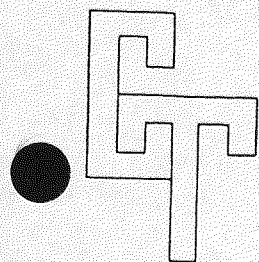
DATE SUBMITTED: 8-05-94

## CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	<u>DATE ANALYZED/METHOD</u>
TDS, mg/l	1,620	8-08-94 EPA 160.1
Hardness as CaCO <sub>3</sub> , mg/l	1,960	8-12-94 EPA 130.2
Carbonate as CO <sub>3</sub> , mg/l	<1	8-09-94 SM 2320B
Bicarbonate as HCO <sub>3</sub> , mg/l	626	8-09-94 SM 2320B
Chloride as Cl, mg/l	28.5	8-08-94 EPA 325.3
Fluoride as F, mg/l	0.22	8-09-94 EPA 340.2
Ammonia as NH <sub>3</sub> -N, mg/l	<.4	8-19-94 SM4500
Nitrate as NO <sub>3</sub> -N, mg/l	0.055	8-08-94 EPA 353.1
Nitrite as NO <sub>2</sub> -N, mg/l	*0.0090	8-06-94 EPA 354.1
Phosphorus as P (T), mg/l	1.07	8-10-94 SM4500
Sulfate as SO <sub>4</sub> , mg/l	802	8-15-94 SM4500
Sulfide as S, mg/l	<.1	8-08-94 EPA 376.1
Aluminum as Al (T), mg/l	63.3	8-09-94 EPA 200.7
Arsenic as As (T), mg/l	<.04	8-09-94 EPA 200.7
Barium as Ba (T), mg/l	0.833	8-09-94 EPA 200.7
Boron as B (T), mg/l	0.195	8-09-94 EPA 200.7
Cadmium as Cd (T), mg/l	<.01	8-09-94 EPA 200.7
Calcium as Ca (T), mg/l	450	8-10-94 EPA 200.7
Chromium as Cr (T), mg/l	0.060	8-09-94 EPA 200.7
Copper as Cu (T), mg/l	0.11	8-09-94 EPA 200.7

\*Run past holding time.

Approved By: *Joe W. Kwan*



# CHEMTECH

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DATE: 8-26-94

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7324 So. 1300 E. STE 100  
Midvale, Utah 84047

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MAY 18 2007

Div. of Oil, Gas & Mining

SAMPLE ID: Lab #U012590

PROJECT: IPA Seep & Spring: Spring 13 HC-13

DATE SAMPLED: 8-03-94

DATE SUBMITTED: 8-05-94

## CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	<u>DATE ANALYZED/METHOD</u>
Iron as Fe (T), mg/l	86.4	8-09-94 EPA 200.7
Lead as Pb (T), mg/l	0.063	8-09-94 EPA 200.7
Magnesium as Mg (T), mg/l	180	8-10-94 EPA 200.7
Manganese as Mn (T), mg/l	5.81	8-09-94 EPA 200.7
Mercury as Hg (T), mg/l	<.0002	8-09-94 EPA 245.1
Molybdenum as Mo (T), mg/l	<.04	8-09-94 EPA 200.7
Nickel as Ni (T), mg/l	0.101	8-09-94 EPA 200.7
Potassium as K (T), mg/l	9.37	8-10-94 EPA 200.7
Selenium as Se (T), mg/l	<.04	8-09-94 EPA 200.7
Sodium as Na (T), mg/l	223	8-10-94 EPA 200.7
Zinc as Zn (T), mg/l	0.209	8-09-94 EPA 200.7

NOTE: Sample temp. when submitted was 15.2°C on ice.

Approved By: \_\_\_\_\_

*Joe W. Krum*



LOS ANGELES DEPARTMENT OF WATER AND POWER  
SOUTH LEASE PROPERTY  
SEEP AND SPRING DATA  
OCTOBER 1994

SEEP/ SPRING Number	PH (units)	COND. (umhos/cm) @ 25 deg C	FLOW RATE (gpm)	TEMP (deg C)	COMMENTS
1			DRY		
1A			SEEP	8	
1B			DRY		
2			SEEP	10	
3			SEEP	9	
3A			DRY		
3B			DRY		
3C			SEEP	9	
3D			SEEP	9	
4			1	6	Snow covers most of the area
5			SEEP		Snow covers most of the area
6			SEEP		Snow covers most of the area
7			3	6	Snow melt
8	8.14	688	1.5	7	Snow melt included
8A			1	6	Snow melt included
8B			NA		
9	8.21	712	SEEP	9	
9R			NA		
10	8.27	813	3.5	12	Some snow melt
11			WET		
12	7.87	1660	SEEP	8	Standing water
12A	8.35	1330	0.5	7	
12B	8.19	1170	1	8	Snow melt and water from 12C
12C	8.50	1540	1	8.5	
12D	8.50	1980	<0.25	10	
12E			SEEP		
13	8.16	1180	1	10	Flows approx. 100'
13A			DRY		
13B			SEEP		No flow but damp
13Z			SEEP		No flow but damp
14	8.41	1620	2	9	
14A			SEEP		No flow but damp
15			DRY		
15A	8.63	885	<1	9	Large rock in creek channel
15B			SEEP		
15C			DRY		
16A			DRY		
16B			DRY		
16C			DRY		
16Z	7.90	882	2	7	
17	8.12	1130	<0.5	9	
17A			WET		
17B	LOCATION ABANDONED 10/26/94				LOCATION ABANDONED
18	7.96	870	<0.5	9	
19A			SEEP		
19B	7.88	890	1	7	
19C			-		Re-emergence of 19B
20	8.39	963	2	9	Some snowmelt contribution
22			DRY		

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Earthlink Engineering, Inc.  
7501 So. Union Park Avenue  
Suite 100  
Mesa, AZ 85207  
(602) 961-1655

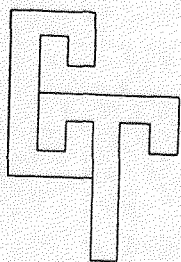
Page 1 of 2

CHAIN-OF-CUSTODY FORM

Sampling Company: <u>EPH TEX</u>	Sampling Personnel: <u>CDH TIG. TDB</u>
Project Name: <u>TPH SEE PEEPING FALLS</u>	Project Number: <u>UC-391.02</u>
Analytical Laboratory: <u>L/PORTCH</u>	Date of Shipment/Delivery: <u>10-28-94</u>
Method of Shipment/Delivery: <u>Hand</u>	Airbill Number: <u>      </u>

Field Sample No.	Date Sampled	Time Sampled	Sample Type	No. of Containers	Remarks
16-7-12-6	10-27-94	1730	WATER	4	SEE ATTACHED for ANALYSIS
16-8-6-1	10-27-94	1745		4	
16-8-8-10	10-28-94	1015		4	
16-8-8-5	10-28-94	1000		4	
CK-1	10-28-94	1030		5	
CK-2	10-28-94	0950		5	
RF-1	10-27-94	1740		5	
RF-2	10-27-94	1745		5	

Relinquished by: <u>[Signature]</u>	Date: <u>10/28/94</u>	Time: <u>1710</u>	Received by: <u>[Signature]</u>	Date: <u>10-28-94</u>	Time: <u>5:10</u>
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:



# CHEMTECH

ANALYTICAL LABORATORY

6100 S. STRATLER  
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PHONE: (801) 262-7299  
FAX: (801) 262-7378

TO: EarthFax Engineering  
7324 So. 1300 E. STE 100  
Midvale, Utah 84047

DATE: 11-16-94

SAMPLE ID: Lab #U017435  
PROJECT: IPA Seep & Spring Fall 94': 14  
DATE SAMPLED: 10-26-94  
DATE SUBMITTED: 10-28-94

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Div. of Oil, Gas & Mining

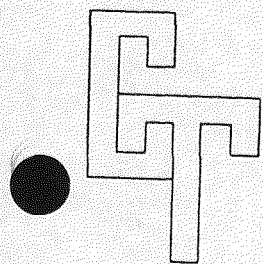
## CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	<u>DATE ANALYZED/METHOD</u>
TDS, mg/l	1,420	11-01-94 EPA 160.2
Hardness as CaCO <sub>3</sub> , mg/l	570	11-11-94 EPA 130.2
Carbonate as CO <sub>3</sub> , mg/l	<1	11-07-94 SM2320B
Bicarbonate as HCO <sub>3</sub> , mg/l	571	11-07-94 SM2320B
Chloride as Cl, mg/l	45	11-09-94 EPA 325.3
Fluoride as F, mg/l	0.24	11-04-94 EPA 340.2
Ammonia as NH <sub>3</sub> -N, mg/l	<.4	11-08-94 SM4500
Nitrate as NO <sub>3</sub> -N, mg/l	<.4	10-31-94 EPA 353.1
Nitrite as NO <sub>2</sub> -N, mg/l	<.005	10-28-94 EPA 354.1
Phosphate as PO <sub>4</sub> -P, mg/l	0.033	11-14-94 SM4500
Sulfate as SO <sub>4</sub> , mg/l	678	11-05/07 EPA 375.4/SM4500
Sulfide as S, mg/l	<.1	10-31-94 EPA 376.1
Aluminum as Al, mg/l	0.105	11-02-94 EPA 200.7
Arsenic as As, mg/l	<.04	11-02-94 EPA 200.7
Barium as Ba, mg/l	0.018	11-02-94 EPA 200.7
Boron as B, mg/l	0.212	11-02-94 EPA 200.7
Cadmium as Cd, mg/l	<.005	11-02-94 EPA 200.7
Calcium as Ca, mg/l	58.6	11-02-94 EPA 200.7
Chromium as Cr, mg/l	<.005	11-02-94 EPA 200.7
Copper as Cu, mg/l	<.005	11-02-94 EPA 200.7
Iron as Fe, mg/l	0.102	11-02-94 EPA 200.7

Approved By: \_\_\_\_\_

*Paul W. Winkler*





# CHEMTECH

ANALYTICAL LABORATORY

6100 S. STRATLER  
MURRAY, UTAH 84107  
PHONE: (801) 262-7299  
FAX: (801) 262-7378

DATE: 11-16-94

TO: EarthFax Engineering  
7324 So. 1300 E. STE 100  
Midvale, Utah 84047

INCORPORATED

MAY 18 2007

Div. of Oil, Gas & Mining

SAMPLE ID: Lab #U017435  
PROJECT: IPA Seep & Spring Fall 94': 14  
DATE SAMPLED: 10-26-94  
DATE SUBMITTED: 10-28-94

## CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	<u>DATE ANALYZED/METHOD</u>
Lead as Pb, mg/l	<.005	11-02-94 EPA 200.7
Magnesium as Mg, mg/l	99.3	11-02-94 EPA 200.7
Manganese as Mn, mg/l	<.01	11-02-94 EPA 200.7
Mercury as Hg, mg/l	<.0002	11-02-94 EPA 245.1
Molybdenum as Mo, mg/l	0.013	11-02-94 EPA 200.7
Nickel as Ni, mg/l	0.0069	11-02-94 EPA 200.7
Potassium as K, mg/l	1.34	11-02-94 EPA 200.7
Selenium as Se, mg/l	<.04	11-02-94 EPA 200.7
Sodium as Na, mg/l	268	11-02-94 EPA 200.7
Zinc as Zn, mg/l	0.054	11-02-94 EPA 200.7

NOTE: Sample temp. when submitted was 10.1°C on ice.

Approved By: \_\_\_\_\_

*Joel Wiskerman*

## LOS ANGELES DEPARTMENT OF WATER AND POWER

## HORSE CANYON MINE

## SEEP AND SPRING DATA

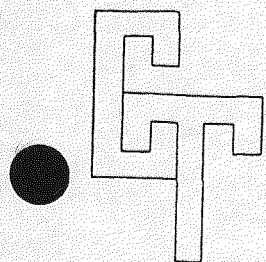
OCTOBER ~~AUGUST~~ 1994

SEEP/SPRING Number	PH (units)	CONDUCTIVITY (umhos/cm @ 25 deg C)	FLOW (gpm)	TEMP (deg C)	COMMENTS
HC-2	8.28	1040	17	8	
HC-4	8.31	1120	0.75	5.5	Possible snowmelt
HC-9			DRY		Replace w/ HC-14
HC-11	7.95	1070	<0.25	7	
HC-13	8.71	1610	2	9	
HC-18			SEEP		not sampled, flow too low
* HC-14					New location for Spring 95
SURFACE WATER					
Number					
HCSW-1	8.04	1220	7	8	Snow melt included
HCSW-2			DRY		
HCSW-3			DRY		

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TO: EarthFax Engineering  
7324 So. 1300 E. STE 100  
Midvale, Utah 84047

DATE: 11-16-94

SAMPLE ID: Lab #U017437  
PROJECT: IPA Seep & Spring Fall 94': HCSW-1  
DATE SAMPLED: 10-27-94  
DATE SUBMITTED: 10-28-94

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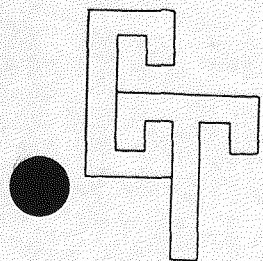
## CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	<u>DATE ANALYZED/METHOD</u>
TDS, mg/l	889	11-01-94 EPA 160.2
Hardness as CaCO <sub>3</sub> , mg/l	405	11-11-94 EPA 130.2
Carbonate as CO <sub>3</sub> , mg/l	<1	11-07-94 SM2320B
Bicarbonate as HCO <sub>3</sub> , mg/l	599	11-07-94 SM2320B
Chloride as Cl, mg/l	21	11-09-94 EPA 325.3
Fluoride as F, mg/l	0.25	11-04-94 EPA 340.2
Ammonia as NH <sub>3</sub> -N, mg/l	<.4	11-08-94 SM4500
Nitrate as NO <sub>3</sub> -N, mg/l	0.032	10-31-94 EPA 353.1
Nitrite as NO <sub>2</sub> -N, mg/l	<.005	10-28-94 EPA 354.1
Phosphate as PO <sub>4</sub> -P, mg/l	0.027	11-14-94 SM4500
Sulfate as SO <sub>4</sub> , mg/l	295	11-05/07 EPA 375.4/SM4500
Sulfide as S, mg/l	<.1	10-31-94 EPA 376.1
Aluminum as Al, mg/l	0.384	11-02-94 EPA 200.7
Arsenic as As, mg/l	<.04	11-02-94 EPA 200.7
Barium as Ba, mg/l	0.096	11-02-94 EPA 200.7
Boron as B, mg/l	0.171	11-02-94 EPA 200.7
Cadmium as Cd, mg/l	<.005	11-02-94 EPA 200.7
Calcium as Ca, mg/l	53.8	11-02-94 EPA 200.7
Chromium as Cr, mg/l	0.012	11-02-94 EPA 200.7
Copper as Cu, mg/l	<.005	11-02-94 EPA 200.7
Iron as Fe, mg/l	0.164	11-02-94 EPA 200.7

Approved By: \_\_\_\_\_

*Paul Wassmann*





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DATE: 11-16-94

TO: EarthFax Engineering  
7324 So. 1300 E. STE 100  
Midvale, Utah 84047

SAMPLE ID: Lab #U017437  
PROJECT: IPA Seep & Spring Fall 94': HCSW-1  
DATE SAMPLED: 10-27-94  
DATE SUBMITTED: 10-28-94

## CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	<u>DATE ANALYZED/METHOD</u>
Lead as Pb, mg/l	<.005	11-02-94 EPA 200.7
Magnesium as Mg, mg/l	65.7	11-02-94 EPA 200.7
Manganese as Mn, mg/l	0.022	11-02-94 EPA 200.7
Mercury as Hg, mg/l	<.0002	11-02-94 EPA 245.1
Molybdenum as Mo, mg/l	<.01	11-02-94 EPA 200.7
Nickel as Ni, mg/l	0.0082	11-02-94 EPA 200.7
Potassium as K, mg/l	4.04	11-02-94 EPA 200.7
Selenium as Se, mg/l	<.04	11-02-94 EPA 200.7
Sodium as Na, mg/l	168	11-02-94 EPA 200.7
Zinc as Zn, mg/l	0.015	11-02-94 EPA 200.7

NOTE: Sample temp. when submitted was 10.1°C on ice.

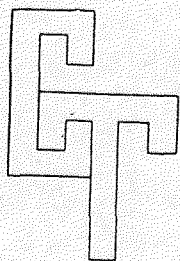
Approved By: \_\_\_\_\_

*Joel W. Kinnaman*

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TO: EarthFax Engineering  
7324 So. 1300 E. STE 100  
Midvale, Utah 84047

DATE: 11-16-94

SAMPLE ID: Lab #U017436  
PROJECT: IPA Seep & Spring Fall 94': H-2  
DATE SAMPLED: 10-27-94  
DATE SUBMITTED: 10-28-94

INCORPORATED

MAY 18 2007

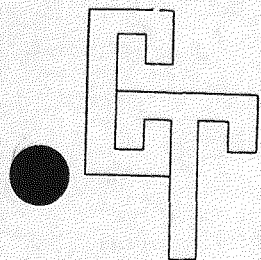
Div. of Oil, Gas & Mining

## CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	<u>DATE ANALYZED/METHOD</u>
TDS, mg/l	783	11-01-94 EPA 160.2
Hardness as CaCO <sub>3</sub> , mg/l	390	11-11-94 EPA 130.2
Carbonate as CO <sub>3</sub> , mg/l	<1	11-07-94 SM2320B
Bicarbonate as HCO <sub>3</sub> , mg/l	561	11-07-94 SM2320B
Chloride as Cl, mg/l	18	11-09-94 EPA 325.3
Fluoride as F, mg/l	0.18	11-04-94 EPA 340.2
Ammonia as NH <sub>3</sub> -N, mg/l	<.4	11-08-94 SM4500
Nitrate as NO <sub>3</sub> -N, mg/l	0.159	10-31-94 EPA 353.1
Nitrite as NO <sub>2</sub> -N, mg/l	<.005	10-28-94 EPA 354.1
Phosphate as PO <sub>4</sub> -P, mg/l	<.02	11-14-94 SM4500
Sulfate as SO <sub>4</sub> , mg/l	252	11-05/07 EPA 375.4/SM4500
Sulfide as S, mg/l	<.1	10-31-94 EPA 376.1
Aluminum as Al, mg/l	0.112	11-02-94 EPA 200.7
Arsenic as As, mg/l	<.04	11-02-94 EPA 200.7
Barium as Ba, mg/l	0.022	11-02-94 EPA 200.7
Boron as B, mg/l	0.148	11-02-94 EPA 200.7
Cadmium as Cd, mg/l	<.005	11-02-94 EPA 200.7
Calcium as Ca, mg/l	46.5	11-02-94 EPA 200.7
Chromium as Cr, mg/l	<.005	11-02-94 EPA 200.7
Copper as Cu, mg/l	<.005	11-02-94 EPA 200.7
Iron as Fe, mg/l	0.023	11-02-94 EPA 200.7

Approved By: \_\_\_\_\_

*Paul Wozniak*



# CHEMTECH

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DATE: 11-16-94

TO: EarthFax Engineering  
7324 So. 1300 E. STE 100  
Midvale, Utah 84047

SAMPLE ID: Lab #U017436  
PROJECT: IPA Seep & Spring Fall 94': H-2  
DATE SAMPLED: 10-27-94  
DATE SUBMITTED: 10-28-94

## CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	<u>DATE ANALYZED/METHOD</u>
Lead as Pb, mg/l	<.005	11-02-94 EPA 200.7
Magnesium as Mg, mg/l	66.4	11-02-94 EPA 200.7
Manganese as Mn, mg/l	<.01	11-02-94 EPA 200.7
Mercury as Hg, mg/l	<.0002	11-02-94 EPA 245.1
Molybdenum as Mo, mg/l	<.01	11-02-94 EPA 200.7
Nickel as Ni, mg/l	<.005	11-02-94 EPA 200.7
Potassium as K, mg/l	1.56	11-02-94 EPA 200.7
Selenium as Se, mg/l	<.04	11-02-94 EPA 200.7
Sodium as Na, mg/l	154	11-02-94 EPA 200.7
Zinc as Zn, mg/l	0.020	11-02-94 EPA 200.7

NOTE: Sample temp. when submitted was 10.1°C on ice.

INCORPORATED

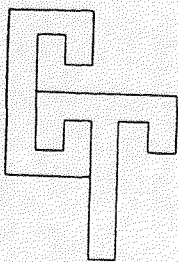
MAY 18 2007

Div. of Oil, Gas & Mining

Approved By: \_\_\_\_\_

*Joel Workman*





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TO: EarthFax Engineering  
7324 So. 1300 E. STE 100  
Midvale, Utah 84047

DATE: 11-16-94

SAMPLE ID: Lab #U017432  
PROJECT: IPA Seep & Spring Fall 94': H-4  
DATE SAMPLED: 10-27-94  
DATE SUBMITTED: 10-28-94

INCORPORATED

MAY 18 2007

Div. of Oil, Gas & Mining

## CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	<u>DATE ANALYZED/METHOD</u>
TDS, mg/l	885	11-01-94 EPA 160.2
Hardness as CaCO <sub>3</sub> , mg/l	543	11-11-94 EPA 130.2
Carbonate as CO <sub>3</sub> , mg/l	<1	11-07-94 SM2320B
Bicarbonate as HCO <sub>3</sub> , mg/l	669	11-07-94 SM2320B
Chloride as Cl, mg/l	18	11-09-94 EPA 325.3
Fluoride as F, mg/l	0.13	11-04-94 EPA 340.2
Ammonia as NH <sub>3</sub> -N, mg/l	<.4	11-08-94 SM4500
Nitrate as NO <sub>3</sub> -N, mg/l	<.02	10-31-94 EPA 353.1
Nitrite as NO <sub>2</sub> -N, mg/l	<.005	10-28-94 EPA 354.1
Phosphate as PO <sub>4</sub> -P, mg/l	0.030	11-14-94 SM4500
Sulfate as SO <sub>4</sub> , mg/l	270	11-05/07 EPA 375.4/SM4500
Sulfide as S, mg/l	<.1	10-31-94 EPA 376.1
Aluminum as Al, mg/l	0.130	11-02-94 EPA 200.7
Arsenic as As, mg/l	<.04	11-02-94 EPA 200.7
Barium as Ba, mg/l	0.098	11-02-94 EPA 200.7
Boron as B, mg/l	0.115	11-02-94 EPA 200.7
Cadmium as Cd, mg/l	<.005	11-02-94 EPA 200.7
Calcium as Ca, mg/l	70.1	11-02-94 EPA 200.7
Chromium as Cr, mg/l	<.005	11-02-94 EPA 200.7
Copper as Cu, mg/l	<.005	11-02-94 EPA 200.7
Iron as Fe, mg/l	1.01	11-02-94 EPA 200.7

Approved By: \_\_\_\_\_

*Paul W. Korman*



# CHEMTECH

ANALYTICAL LABORATORY

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MURRAY, UTAH 84107  
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TO: EarthFax Engineering  
7324 So. 1300 E. STE 100  
Midvale, Utah 84047

INCORPORATED

MAY 18 2007

Div. of Oil, Gas & Mining

SAMPLE ID: Lab #U017432  
PROJECT: IPA Seep & Spring Fall 94': H-4  
DATE SAMPLED: 10-27-94  
DATE SUBMITTED: 10-28-94

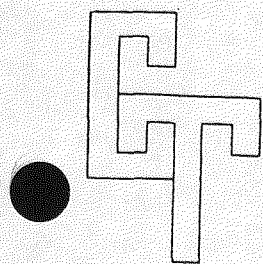
## CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	<u>DATE ANALYZED/METHOD</u>
Lead as Pb, mg/l	<.005	11-02-94 EPA 200.7
Magnesium as Mg, mg/l	84.4	11-02-94 EPA 200.7
Manganese as Mn, mg/l	0.099	11-02-94 EPA 200.7
Mercury as Hg, mg/l	<.0002	11-02-94 EPA 245.1
Molybdenum as Mo, mg/l	<.01	11-02-94 EPA 200.7
Nickel as Ni, mg/l	0.0061	11-02-94 EPA 200.7
Potassium as K, mg/l	1.57	11-02-94 EPA 200.7
Selenium as Se, mg/l	<.04	11-02-94 EPA 200.7
Sodium as Na, mg/l	129	11-02-94 EPA 200.7
Zinc as Zn, mg/l	0.013	11-02-94 EPA 200.7

NOTE: Sample temp. when submitted was 10.1°C on ice.

Approved By: \_\_\_\_\_

*Joel Workman*



# CHEMTECH

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TO: EarthFax Engineering  
7324 So. 1300 E. STE 100  
Midvale, Utah 84047

DATE: 11-16-94

SAMPLE ID: Lab #U017433  
PROJECT: IPA Seep & Spring Fall 94': H-11  
DATE SAMPLED: 10-27-94  
DATE SUBMITTED: 10-28-94

INCORPORATED

MAY 18 2007

Div. of Oil, Gas & Mining

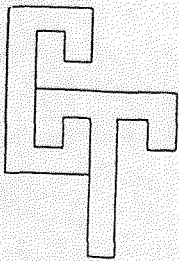
## CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	<u>DATE ANALYZED/METHOD</u>
TDS, mg/l	845	11-01-94 EPA 160.2
Hardness as CaCO <sub>3</sub> , mg/l	560	11-11-94 EPA 130.2
Carbonate as CO <sub>3</sub> , mg/l	<1	11-07-94 SM2320B
Bicarbonate as HCO <sub>3</sub> , mg/l	621	11-07-94 SM2320B
Chloride as Cl, mg/l	15	11-09-94 EPA 325.3
Fluoride as F, mg/l	0.15	11-04-94 EPA 340.2
Ammonia as NH <sub>3</sub> -N, mg/l	<.4	11-08-94 SM4500
Nitrate as NO <sub>3</sub> -N, mg/l	<.02	10-31-94 EPA 353.1
Nitrite as NO <sub>2</sub> -N, mg/l	<.005	10-28-94 EPA 354.1
Phosphate as PO <sub>4</sub> -P, mg/l	0.123	11-14-94 SM4500
Sulfate as SO <sub>4</sub> , mg/l	265	11-05/07 EPA 375.4/SM4500
Sulfide as S, mg/l	<.1	10-31-94 EPA 376.1
Aluminum as Al, mg/l	2.83	11-02-94 EPA 200.7
Arsenic as As, mg/l	<.04	11-02-94 EPA 200.7
Barium as Ba, mg/l	0.125	11-02-94 EPA 200.7
Boron as B, mg/l	0.106	11-02-94 EPA 200.7
Cadmium as Cd, mg/l	<.005	11-02-94 EPA 200.7
Calcium as Ca, mg/l	77.7	11-02-94 EPA 200.7
Chromium as Cr, mg/l	0.0069	11-02-94 EPA 200.7
Copper as Cu, mg/l	<.005	11-02-94 EPA 200.7
Iron as Fe, mg/l	3.52	11-02-94 EPA 200.7

Approved By: \_\_\_\_\_

*Joel Workman*





# CHEMTECH

ANALYTICAL LABORATORY

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DATE: 11-16-94

TO: EarthFax Engineering  
7324 So. 1300 E. STE 100  
Midvale, Utah 84047

SAMPLE ID: Lab #U017433  
PROJECT: IPA Seep & Spring Fall 94': H-11  
DATE SAMPLED: 10-27-94  
DATE SUBMITTED: 10-28-94

## CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	<u>DATE ANALYZED/METHOD</u>
Lead as Pb, mg/l	<.005	11-02-94 EPA 200.7
Magnesium as Mg, mg/l	84.3	11-02-94 EPA 200.7
Manganese as Mn, mg/l	0.169	11-02-94 EPA 200.7
Mercury as Hg, mg/l	<.0002	11-02-94 EPA 245.1
Molybdenum as Mo, mg/l	<.01	11-02-94 EPA 200.7
Nickel as Ni, mg/l	0.0071	11-02-94 EPA 200.7
Potassium as K, mg/l	3.11	11-02-94 EPA 200.7
Selenium as Se, mg/l	<.04	11-02-94 EPA 200.7
Sodium as Na, mg/l	102	11-02-94 EPA 200.7
Zinc as Zn, mg/l	0.058	11-02-94 EPA 200.7

NOTE: Sample temp. when submitted was 10.1°C on ice.

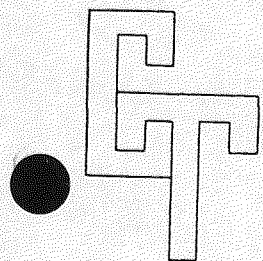
INCORPORATED

MAY 18 2007

Approved By: \_\_\_\_\_

*Paul Workman*

Div. of Oil, Gas & Mining



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ANALYTICAL LABORATORY

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PHONE: (801) 262-7299  
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TO: EarthFax Engineering  
7324 So. 1300 E. STE 100  
Midvale, Utah 84047

DATE: 11-16-94

SAMPLE ID: Lab #U017434  
PROJECT: IPA Seep & Spring Fall 94': H-13  
DATE SAMPLED: 10-27-94  
DATE SUBMITTED: 10-28-94

INCORPORATED

MAY 18 2007

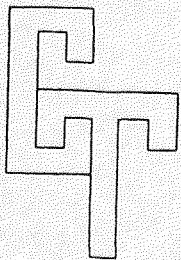
Div. of Oil, Gas & Mining

## CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	<u>DATE ANALYZED/METHOD</u>
TDS, mg/l	1,400	11-01-94 EPA 160.2
Hardness as CaCO <sub>3</sub> , mg/l	745	11-11-94 EPA 130.2
Carbonate as CO <sub>3</sub> , mg/l	<1	11-07-94 SM2320B
Bicarbonate as HCO <sub>3</sub> , mg/l	607	11-07-94 SM2320B
Chloride as Cl, mg/l	25	11-09-94 EPA 325.3
Fluoride as F, mg/l	0.18	11-04-94 EPA 340.2
Ammonia as NH <sub>3</sub> -N, mg/l	<.4	11-08-94 SM4500
Nitrate as NO <sub>3</sub> -N, mg/l	<.08	10-31-94 EPA 353.1
Nitrite as NO <sub>2</sub> -N, mg/l	<.005	10-28-94 EPA 354.1
Phosphate as PO <sub>4</sub> -P, mg/l	0.074	11-14-94 SM4500
Sulfate as SO <sub>4</sub> , mg/l	671	11-05/07 EPA 375.4/SM4500
Sulfide as S, mg/l	<.1	10-31-94 EPA 376.1
Aluminum as Al, mg/l	1.14	11-02-94 EPA 200.7
Arsenic as As, mg/l	<.04	11-02-94 EPA 200.7
Barium as Ba, mg/l	0.122	11-02-94 EPA 200.7
Boron as B, mg/l	0.161	11-02-94 EPA 200.7
Cadmium as Cd, mg/l	<.005	11-02-94 EPA 200.7
Calcium as Ca, mg/l	82.2	11-02-94 EPA 200.7
Chromium as Cr, mg/l	0.0054	11-02-94 EPA 200.7
Copper as Cu, mg/l	<.005	11-02-94 EPA 200.7
Iron as Fe, mg/l	2.47	11-02-94 EPA 200.7

Approved By: \_\_\_\_\_

*John W. Korman*



# CHEMTECH

ANALYTICAL LABORATORY

6100 S. STRATLER  
MURRAY, UTAH 84107  
PHONE: (801) 262-7299  
FAX: (801) 262-7378

DATE: 11-16-94

TO: EarthFax Engineering  
7324 So. 1300 E. STE 100  
Midvale, Utah 84047

INCORPORATED

MAY 18 2007

Div. of Oil, Gas & Mining

SAMPLE ID: Lab #U017434  
PROJECT: IPA Seep & Spring Fall 94': H-13  
DATE SAMPLED: 10-27-94  
DATE SUBMITTED: 10-28-94

## CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	<u>DATE ANALYZED/METHOD</u>
Lead as Pb, mg/l	<.005	11-02-94 EPA 200.7
Magnesium as Mg, mg/l	121	11-02-94 EPA 200.7
Manganese as Mn, mg/l	0.167	11-02-94 EPA 200.7
Mercury as Hg, mg/l	<.0002	11-02-94 EPA 245.1
Molybdenum as Mo, mg/l	<.01	11-02-94 EPA 200.7
Nickel as Ni, mg/l	0.0082	11-02-94 EPA 200.7
Potassium as K, mg/l	4.61	11-02-94 EPA 200.7
Selenium as Se, mg/l	<.04	11-02-94 EPA 200.7
Sodium as Na, mg/l	210	11-02-94 EPA 200.7
Zinc as Zn, mg/l	0.018	11-02-94 EPA 200.7

NOTE: Sample temp. when submitted was 10.1°C on ice.

Approved By: \_\_\_\_\_

*Joel Workman*



LOS ANGELES DEPARTMENT OF WATER AND POWER  
SOUTH LEASE PROPERTY  
SEEP AND SPRING DATA  
MAY 1995

SEEP/ SPRING Number	PH (units)	COND. (umhos/cm) @ 25 deg C	FLOW RATE (gpm)	TEMP (deg C)	COMMENTS
1	8.02	790	17	7	
1A	8.00	790	0.5	7	
1B					could not find
2	7.80	760	0.5	7	
3	8.00	710	2	8	
3A	7.88	590	5	8	
3B	7.61	510	10	8	
3C	8.28	560	SEEP	8	
3D	8.10	390	5	8	
4	7.68	830	3	7	
5	8.05	950	3	7	
6					not found
7			SEEP		
8	7.79	400	3	7	
8A	8.06	160	7	8	
8B					not found
9	8.21	650	20	8	
9R	7.86	590	1	8	
10	8.24	760	5	13	
11	8.11	1330	SEEP	12	
12	7.63	1710	<0.25	11	
12A	7.54	1550	4	8.5	
12B	8.05	1080	1.5	9	
12C	8.29	1090	<0.5	8.5	
12D	7.67	3800	SEEP	13	
12E	7.97	1950	<0.25	8	
13	8.17	1050	2	15	
13A			DRY		
13B	8.37	1020	3	15	
13Z	7.57	940	0.1	15	
14	8.11	1600	1	15	
14A			DRY		
15			WET		
15A	8.23	560	0.25	12	
15B			DRY		
15C			DRY		
16 (16Z)	8.19	610	1	12	WATER TANK
16A					Flow mixed w/ upgradient spring f
16B					Flow mixed w/ upgradient spring f
16C	7.53	560	0.2	13	
16Z					See 16
17	8.31	750	<0.25	9	
17A			WET		
17B	LOCATION ABANDONED 10/26/94				LOCATION ABANDONED
18	8.27	620	0.5	9	
19A	7.83	580	0.5	7	
19B	7.81	530	10	8	
19C					Re-emergence of 19B
20			SEEP		
22			WET		

EarthFax Engineering, Inc.  
7324 So. Union Park Avenue  
Suite 100  
Midvale, UT 84047  
(801) 561-1555

Page 1 of 2

CHAIN-OF-CUSTODY FORM

SEE ATTACHMENT FOR  
ANALYTICAL SUITE

Sampling Company: <i>EARTH FAX</i>	Sampling Personnel: <i>JDG, CDH, GHP</i>
Project Name: <i>IPA SEEP &amp; SPRINGS MAY 95</i>	Project Number: <i>UC-39102</i>
Analytical Laboratory: <i>CHEMECH</i>	Date of Shipment/Delivery: <i>MAY 25, 95</i>
Method of Shipment/Delivery: <i>HAND</i>	Airbill Number: <i>—</i>

Field Sample No.	Date Sampled	Time Sampled	Sample Type	No. of Containers	Remarks
H-14	5-24-95	0900	H <sub>2</sub> O	4	
H-4	5-24-95	0900	H <sub>2</sub> O	4	
H-11	5-24-95	1000	H <sub>2</sub> O	5	EXTRA H <sub>2</sub> S FOR QC, IF NEEDED
H-13	5-24-95	1030	H <sub>2</sub> O	4	INCORPORATED
H-18	5- <sup>24</sup> <del>23</del> -95	1000	H <sub>2</sub> O	4	MAY 18 2007
#9	5-23-95	1430	H <sub>2</sub> O	4	Div. of Oil, Gas & Mining
H-2	5-23-95	1630	H <sub>2</sub> O	4	
#1	5-23-95	1400	H <sub>2</sub> O	4	

Relinquished by: <i>[Signature]</i>	Date: <i>5-25-95</i>	Time: <i>1015</i>	Received by: <i>[Signature]</i>	Date: <i>5-25</i>	Time: <i>1015</i>
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

CHAIN-OF-CUSTODY FORM

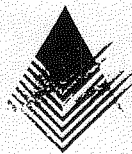
SEE ATTACHMENT  
FOR ANALYTICAL SUITE

Sampling Company: <u>EARTH FAX</u>	Sampling Personnel: <u>CDH, JDG, GHP</u>
Project Name: <u>IPA SEEP SPRING MAY 95</u>	Project Number: <u>UC-391-02</u>
Analytical Laboratory: <u>CHEMTECH</u>	Date of Shipment/Delivery: <u>MAY 25, 95</u>
Method of Shipment/Delivery: <u>HAND</u>	Airbill Number: <u>—</u>

Field Sample No.	Date Sampled	Time Sampled	Sample Type	No. of Containers	Remarks
SPRING 16	5-23-95	1600	H <sub>2</sub> O	4	
SPRING 14	5-23-95	1645	H <sub>2</sub> O	4	
SPRING 10	5-23-95	1645	H <sub>2</sub> O	4	
HCSW-1	5-23-95	1600	H <sub>2</sub> O	4	
					INCORPORATED
					MAY 18 2007
					Div. of Oil, Gas & Mining

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by: <u>J.D. Gan</u>	Date: <u>5-25-95</u>	Time: <u>1015</u>	Received by: <u>Jamie Shelley</u>	Date: <u>5-25-95</u>	Time: <u>1015</u>
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:





DATE: 6-16-95

TO: EarthFax Engineering  
7324 So. 1300 E. STE 100  
Midvale, Utah 84047

SAMPLE ID: Lab #U027270

PROJECT: IPA Seep &amp; Spring May 95: #1

DATE SAMPLED: 5-24-95

DATE SUBMITTED: 5-25-95

INCORPORATED

MAY 18 2007

Div. of Oil, Gas &amp; Mining

CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	<u>DATE ANALYZED/METHOD</u>
TDS, mg/l	850	6-01-95 EPA 160.1
Hardness as CaCO <sub>3</sub> , mg/l	373	6-01-95 EPA 130.2
Bicarbonate as HCO <sub>3</sub> , mg/l	527	6-06-95 SM 2320B
Carbonate as CO <sub>3</sub> , mg/l	9	6-06-95 SM 2320B
Chloride as Cl, mg/l	26.4	5-31-95 EPA 325.3
Fluoride as F, mg/l	0.24	6-06-95 EPA 340.2
Ammonia as NH <sub>3</sub> -N, mg/l	<.4	5-25/6-5 SM 4500G
Nitrate as NO <sub>3</sub> -N, mg/l	0.061	5-30-95 EPA 353.1
Nitrite as NO <sub>2</sub> -N, mg/l	0.011	5-25-95 EPA 354.1
Ortho Phosphate as PO <sub>4</sub> -P, mg/l	<.01	5-25-95 SM 4500E
Phosphorus as P (T), mg/l	<.02	5-25-95 SM 4500E
Sulfate as SO <sub>4</sub> , mg/l	297	5-29-95 SM 4500C/D
Sulfide as S, mg/l	<.1	5-30-95 EPA 376.1
Aluminum as Al, mg/l	<.1	5-30-95 EPA 200.7
Arsenic as As, mg/l	<.04	5-30-95 EPA 200.7
Barium as Ba, mg/l	0.053	5-30-95 EPA 200.7
Boron as B, mg/l	0.202	5-30-95 EPA 200.7
Cadmium as Cd, mg/l	<.01	5-30-95 EPA 200.7
Calcium as Ca, mg/l	51.6	5-30-95 EPA 200.7

Approved By: 



DATE: 6-16-95

TO: EarthFax Engineering  
7324 So. 1300 E. STE 100  
Midvale, Utah 84047

SAMPLE ID: Lab #U027270

PROJECT: IPA Seep &amp; Spring May 95: #1

DATE SAMPLED: 5-24-95

DATE SUBMITTED: 5-25-95

CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	<u>DATE ANALYZED/METHOD</u>
Chromium as Cr, mg/l	<.01	5-30-95 EPA 200.7
Copper as Cu, mg/l	<.01	5-30-95 EPA 200.7
Iron as Fe, mg/l	0.100	5-30-95 EPA 200.7
Lead as Pb, mg/l	<.02	5-30-95 EPA 200.7
Magnesium as Mg, mg/l	63.8	5-30-95 EPA 200.7
Manganese as Mn, mg/l	0.013	5-30-95 EPA 200.7
Mercury as Hg, mg/l	<.0002	5-31-95 EPA 245.1
Molybdenum as Mo, mg/l	<.04	5-30-95 EPA 200.7
Nickel as Ni, mg/l	<.01	5-30-95 EPA 200.7
Potassium as K, mg/l	3.70	5-30-95 EPA 200.7
Selenium as Se, mg/l	<.04	5-30-95 EPA 200.7
Sodium as Na, mg/l	169	5-30-95 EPA 200.7
Zinc as Zn, mg/l	0.012	5-30-95 EPA 200.7

INCORPORATED

MAY 18 2007

Div. of Oil, Gas &amp; Mining

Approved By: 



DATE: 6-16-95

TO: EarthFax Engineering  
7324 So. 1300 E. STE 100  
Midvale, Utah 84047

INCORPORATED

MAY 18 2007

Div. of Oil, Gas &amp; Mining

SAMPLE ID: Lab #U027268

PROJECT: IPA Seep &amp; Spring May 95: #9

DATE SAMPLED: 5-24-95

DATE SUBMITTED: 5-25-95

CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	<u>DATE ANALYZED/METHOD</u>
TDS, mg/l	534	6-01-95 EPA 160.1
Hardness as CaCO <sub>3</sub> , mg/l	328	6-01-95 EPA 130.2
Bicarbonate as HCO <sub>3</sub> , mg/l	463	6-06-95 SM 2320B
Carbonate as CO <sub>3</sub> , mg/l	7	6-06-95 SM 2320B
Chloride as Cl, mg/l	11.2	5-31-95 EPA 325.3
Fluoride as F, mg/l	0.16	6-06-95 EPA 340.2
Ammonia as NH <sub>3</sub> -N, mg/l	<.4	5-25/6-5 SM 4500G
Nitrate as NO <sub>3</sub> -N, mg/l	<.02	5-30-95 EPA 353.1
Nitrite as NO <sub>2</sub> -N, mg/l	<.005	5-25-95 EPA 354.1
Ortho Phosphate as PO <sub>4</sub> -P, mg/l	<.01	5-25-95 SM 4500E
Phosphorus as P (T), mg/l	<.02	5-25-95 SM 4500E
Sulfate as SO <sub>4</sub> , mg/l	101	5-29-95 SM 4500C/D
Sulfide as S, mg/l	0.11	5-30-95 EPA 376.1
Aluminum as Al, mg/l	<.1	5-30-95 EPA 200.7
Arsenic as As, mg/l	<.04	5-30-95 EPA 200.7
Barium as Ba, mg/l	0.103	5-30-95 EPA 200.7
Boron as B, mg/l	0.097	5-30-95 EPA 200.7
Cadmium as Cd, mg/l	<.01	5-30-95 EPA 200.7
Calcium as Ca, mg/l	59.7	5-30-95 EPA 200.7

Approved By: 





DATE: 6-16-95

TO: EarthFax Engineering  
7324 So. 1300 E. STE 100  
Midvale, Utah 84047

INCORPORATED

MAY 18 2007

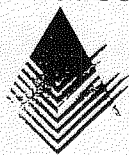
Div. of Oil, Gas &amp; Mining

SAMPLE ID: Lab #U027268  
PROJECT: IPA Seep & Spring May 95: #9  
DATE SAMPLED: 5-24-95  
DATE SUBMITTED: 5-25-95

CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	<u>DATE ANALYZED/METHOD</u>
Chromium as Cr, mg/l	<.01	5-30-95 EPA 200.7
Copper as Cu, mg/l	<.01	5-30-95 EPA 200.7
Iron as Fe, mg/l	0.067	5-30-95 EPA 200.7
Lead as Pb, mg/l	<.02	5-30-95 EPA 200.7
Magnesium as Mg, mg/l	52.4	5-30-95 EPA 200.7
Manganese as Mn, mg/l	0.052	5-30-95 EPA 200.7
Mercury as Hg, mg/l	<.0002	5-31-95 EPA 245.1
Molybdenum as Mo, mg/l	<.04	5-30-95 EPA 200.7
Nickel as Ni, mg/l	<.01	5-30-95 EPA 200.7
Potassium as K, mg/l	<.1	5-30-95 EPA 200.7
Selenium as Se, mg/l	<.04	5-30-95 EPA 200.7
Sodium as Na, mg/l	68.2	5-30-95 EPA 200.7
Zinc as Zn, mg/l	<.01	5-30-95 EPA 200.7

Approved By: 



DATE: 6-16-95

TO: EarthFax Engineering  
7324 So. 1300 E. STE 100  
Midvale, Utah 84047

INCORPORATED

MAY 18 2007

Div. of Oil, Gas &amp; Mining

SAMPLE ID: Lab #U027273

PROJECT: IPA Seep &amp; Spring May 95: Spring 10

DATE SAMPLED: 5-24-95

DATE SUBMITTED: 5-25-95

CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	<u>DATE ANALYZED/METHOD</u>
TDS, mg/l	603	6-01-95 EPA 160.1
Hardness as CaCO <sub>3</sub> , mg/l	407	6-01-95 EPA 130.2
Bicarbonate as HCO <sub>3</sub> , mg/l	446	6-06-95 SM 2320B
Carbonate as CO <sub>3</sub> , mg/l	6	6-06-95 SM 2320B
Chloride as Cl, mg/l	12.2	5-31-95 EPA 325.3
Fluoride as F, mg/l	0.15	6-06-95 EPA 340.2
Ammonia as NH <sub>3</sub> -N, mg/l	<.4	5-25/6-5 SM 4500G
Nitrate as NO <sub>3</sub> -N, mg/l	0.048	5-30-95 EPA 353.1
Nitrite as NO <sub>2</sub> -N, mg/l	<.005	5-25-95 EPA 354.1
Ortho Phosphate as PO <sub>4</sub> -P, mg/l	<.01	5-25-95 SM 4500E
Phosphorus as P (T), mg/l	<.02	5-25-95 SM 4500E
Sulfate as SO <sub>4</sub> , mg/l	171	5-29-95 SM 4500C/D
Sulfide as S, mg/l	<.1	5-30-95 EPA 376.1
Aluminum as Al, mg/l	<.1	5-30-95 EPA 200.7
Arsenic as As, mg/l	<.04	5-30-95 EPA 200.7
Barium as Ba, mg/l	0.055	5-30-95 EPA 200.7
Boron as B, mg/l	<.05	5-30-95 EPA 200.7
Cadmium as Cd, mg/l	<.01	5-30-95 EPA 200.7
Calcium as Ca, mg/l	69	5-30-95 EPA 200.7

Approved By: 



DATE: 6-16-95

TO: EarthFax Engineering  
7324 So. 1300 E. STE 100  
Midvale, Utah 84047

INCORPORATED

MAY 18 2007

Div. of Oil, Gas &amp; Mining

SAMPLE ID: Lab #U027273

PROJECT: IPA Seep &amp; Spring May 95: Spring 10

DATE SAMPLED: 5-24-95

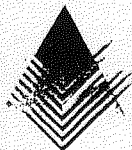
DATE SUBMITTED: 5-25-95

CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	<u>DATE ANALYZED/METHOD</u>
Chromium as Cr, mg/l	<.01	5-30-95 EPA 200.7
Copper as Cu, mg/l	<.01	5-30-95 EPA 200.7
Iron as Fe, mg/l	<.01	5-30-95 EPA 200.7
Lead as Pb, mg/l	<.02	5-30-95 EPA 200.7
Magnesium as Mg, mg/l	58	5-30-95 EPA 200.7
Manganese as Mn, mg/l	<.01	5-30-95 EPA 200.7
Mercury as Hg, mg/l	<.0002	5-31-95 EPA 245.1
Molybdenum as Mo, mg/l	<.04	5-30-95 EPA 200.7
Nickel as Ni, mg/l	<.01	5-30-95 EPA 200.7
Potassium as K, mg/l	0.91	5-30-95 EPA 200.7
Selenium as Se, mg/l	<.04	5-30-95 EPA 200.7
Sodium as Na, mg/l	61	5-30-95 EPA 200.7
Zinc as Zn, mg/l	<.01	5-30-95 EPA 200.7

Approved By: 





DATE: 6-16-95

TO: EarthFax Engineering  
7324 So. 1300 E. STE 100  
Midvale, Utah 84047

INCORPORATED

MAY 18 2007

Div. of Oil, Gas &amp; Mining

SAMPLE ID: Lab #U027272

PROJECT: IPA Seep &amp; Spring May 95: Spring 14

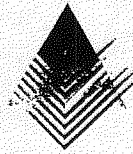
DATE SAMPLED: 5-24-95

DATE SUBMITTED: 5-25-95

CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	<u>DATE ANALYZED/METHOD</u>
TDS, mg/l	1,340	6-01-95 EPA 160.1
Hardness as CaCO <sub>3</sub> , mg/l	570	6-01-95 EPA 130.2
Bicarbonate as HCO <sub>3</sub> , mg/l	541	6-06-95 SM 2320B
Carbonate as CO <sub>3</sub> , mg/l	7	6-06-95 SM 2320B
Chloride as Cl, mg/l	43.6	5-31-95 EPA 325.3
Fluoride as F, mg/l	0.23	6-06-95 EPA 340.2
Ammonia as NH <sub>3</sub> -N, mg/l	<.4	5-25/6-5 SM 4500G
Nitrate as NO <sub>3</sub> -N, mg/l	0.047	5-30-95 EPA 353.1
Nitrite as NO <sub>2</sub> -N, mg/l	<.005	5-25-95 EPA 354.1
Ortho Phosphate as PO <sub>4</sub> -P, mg/l	<.01	5-25-95 SM 4500E
Phosphorus as P (T), mg/l	<.02	5-25-95 SM 4500E
Sulfate as SO <sub>4</sub> , mg/l	690	5-29-95 SM 4500C/D
Sulfide as S, mg/l	<.1	5-30-95 EPA 376.1
Aluminum as Al, mg/l	<.1	5-30-95 EPA 200.7
Arsenic as As, mg/l	<.04	5-30-95 EPA 200.7
Barium as Ba, mg/l	0.015	5-30-95 EPA 200.7
Boron as B, mg/l	0.242	5-30-95 EPA 200.7
Cadmium as Cd, mg/l	<.01	5-30-95 EPA 200.7
Calcium as Ca, mg/l	60.2	5-30-95 EPA 200.7

Approved By: 



DATE: 6-16-95

TO: EarthFax Engineering  
7324 So. 1300 E. STE 100  
Midvale, Utah 84047

INCORPORATED  
MAY 18 2007  
Div. of Oil, Gas & Mining

SAMPLE ID: Lab #U027272

PROJECT: IPA Seep &amp; Spring May 95: Spring 14

DATE SAMPLED: 5-24-95

DATE SUBMITTED: 5-25-95

CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	<u>DATE ANALYZED/METHOD</u>
Chromium as Cr, mg/l	<.01	5-30-95 EPA 200.7
Copper as Cu, mg/l	<.01	5-30-95 EPA 200.7
Iron as Fe, mg/l	0.015	5-30-95 EPA 200.7
Lead as Pb, mg/l	<.02	5-30-95 EPA 200.7
Magnesium as Mg, mg/l	103	5-30-95 EPA 200.7
Manganese as Mn, mg/l	<.01	5-30-95 EPA 200.7
Mercury as Hg, mg/l	<.0002	5-31-95 EPA 245.1
Molybdenum as Mo, mg/l	<.04	5-30-95 EPA 200.7
Nickel as Ni, mg/l	<.01	5-30-95 EPA 200.7
Potassium as K, mg/l	1.16	5-30-95 EPA 200.7
Selenium as Se, mg/l	<.04	5-30-95 EPA 200.7
Sodium as Na, mg/l	281	5-30-95 EPA 200.7
Zinc as Zn, mg/l	0.466	5-30-95 EPA 200.7

Approved By: Joe W. Krum



DATE: 6-16-95

TO: EarthFax Engineering  
7324 So. 1300 E. STE 100  
Midvale, Utah 84047

SAMPLE ID: Lab #U027271

PROJECT: IPA Seep &amp; Spring May 95: Spring 16

DATE SAMPLED: 5-24-95

DATE SUBMITTED: 5-25-95

INCORPORATED

MAY 18 2007

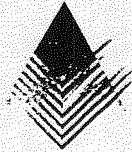
Div. of Oil, Gas &amp; Mining

CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	<u>DATE ANALYZED/METHOD</u>
TDS, mg/l	584	6-01-95 EPA 160.1
Hardness as CaCO <sub>3</sub> , mg/l	304	6-01-95 EPA 130.2
Bicarbonate as HCO <sub>3</sub> , mg/l	457	6-06-95 SM 2320B
Carbonate as CO <sub>3</sub> , mg/l	8	6-06-95 SM 2320B
Chloride as Cl, mg/l	19.3	5-31-95 EPA 325.3
Fluoride as F, mg/l	0.17	6-06-95 EPA 340.2
Ammonia as NH <sub>3</sub> -N, mg/l	<.4	5-25/6-5 SM 4500G
Nitrate as NO <sub>3</sub> -N, mg/l	0.029	5-30-95 EPA 353.1
Nitrite as NO <sub>2</sub> -N, mg/l	<.005	5-25-95 EPA 354.1
Ortho Phosphate as PO <sub>4</sub> -P, mg/l	<.01	5-25-95 SM 4500E
Phosphorus as P (T), mg/l	<.02	5-25-95 SM 4500E
Sulfate as SO <sub>4</sub> , mg/l	137	5-29-95 SM 4500C/D
Sulfide as S, mg/l	<.1	5-30-95 EPA 376.1
Aluminum as Al, mg/l	<.1	5-30-95 EPA 200.7
Arsenic as As, mg/l	<.04	5-30-95 EPA 200.7
Barium as Ba, mg/l	0.048	5-30-95 EPA 200.7
Boron as B, mg/l	0.087	5-30-95 EPA 200.7
Cadmium as Cd, mg/l	<.01	5-30-95 EPA 200.7
Calcium as Ca, mg/l	43.1	5-30-95 EPA 200.7

Approved By: 





DATE: 6-16-95

TO: EarthFax Engineering  
7324 So. 1300 E. STE 100  
Midvale, Utah 84047

SAMPLE ID: Lab #U027271

PROJECT: IPA Seep &amp; Spring May 95: Spring 16

DATE SAMPLED: 5-24-95

DATE SUBMITTED: 5-25-95

INCORPORATED  
MAY 18 2007  
Div. of Oil, Gas & Mining

CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	<u>DATE ANALYZED/METHOD</u>
Chromium as Cr, mg/l	<.01	5-30-95 EPA 200.7
Copper as Cu, mg/l	<.01	5-30-95 EPA 200.7
Iron as Fe, mg/l	0.161	5-30-95 EPA 200.7
Lead as Pb, mg/l	<.02	5-30-95 EPA 200.7
Magnesium as Mg, mg/l	50.2	5-30-95 EPA 200.7
Manganese as Mn, mg/l	<.01	5-30-95 EPA 200.7
Mercury as Hg, mg/l	<.0002	5-31-95 EPA 245.1
Molybdenum as Mo, mg/l	<.04	5-30-95 EPA 200.7
Nickel as Ni, mg/l	<.01	5-30-95 EPA 200.7
Potassium as K, mg/l	0.360	5-30-95 EPA 200.7
Selenium as Se, mg/l	<.04	5-30-95 EPA 200.7
Sodium as Na, mg/l	105	5-30-95 EPA 200.7
Zinc as Zn, mg/l	0.022	5-30-95 EPA 200.7

Approved By: Joe W. Krum

LOS ANGELES DEPARTMENT OF WATER AND POWER  
HORSE CANYON MINE  
SEEP AND SPRING DATA  
MAY 1995

EEP/SPRING Number	PH (units)	CONDUCTIVITY (umhos/cm @ 25 deg C)	FLOW (gpm)	TEMP (deg C)	COMMENTS
HC-2	8.16	790	13	9	
HC-4	7.56	680	3	13	
HC-11	7.87	700	20	8	
HC-13	7.55	1450	1	11	
HC-18	8.33	780	15	8	
* HC-14	7.54	1400	0.5	8	New location for Spring 95
SURFACE WATER					
Number					
HCSW-1	8.23	850	8	8.5	Recent Precipitation
HCSW-2			DRY		
HCSW-3			DRY		

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MAY 18 2007

Div. of Oil, Gas & Mining

2 Samples collected 5/23-24/95, analyzed 5-25-95

Sample	pH	Conductivity
1	8.02	790
1A	8.00	790
2	7.80	760
3	8.00	710
3A	7.88	590
3B	7.61	510
3C	8.28	560
3D	8.10	390
4	7.68	830
5	8.05	950
8	7.79	400
8A	8.06	160
9	8.21	650
9R	7.86	590
10	8.24	760
11	8.11	1330
12	7.63	1710
12A	7.54	1550
12B	8.05	1080
12C	8.29	1090
12D	7.67	3800
12E	7.97	1950
13	8.17	1050
13B	8.37	1020
13Z	7.57	940
14	8.11	1600
15A	8.23	560
16	8.19	610
16C	7.53	560
17	8.31	750
18	8.27	620
19A	7.83	580
19B	7.81	530
H-1	8.23	850
H-2	8.16	790
H-4	7.56	680
H-11	7.87	700
H-13	7.55	1450
H-14	7.54	1400
H-18	8.33	780

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Div. of Oil, Gas & Mining



Cartallax Engineering, Inc.  
7324 So. Union Park Avenue  
Suite 100  
Midvale, UT 84047  
(801) 561-1555

Page 1 of 2

CHAIN-OF-CUSTODY FORM

SEE ATTACHMENT FOR  
ANALYTICAL LIST

Sampling Company: <u>FORTECO</u>	Sampling Personnel: <u>TDG, CDH, JAP</u>
Project Name: <u>UT - 2007-01-15</u>	Project Number: <u>407902</u>
Analytical Laboratory: <u>SLC</u>	Date of Shipment/Delivery: <u>11A 55-95</u>
Method of Shipment/Delivery: <u>LAND</u>	Airbill Number: <u>—</u>

Field Sample No.	Date Sampled	Time Sampled	Sample Type	No. of Containers	Remarks
11-14	5-24-95	0900	H <sub>2</sub> O	4	
11-4	5-24-95	0900	H <sub>2</sub> O	4	
11-11	5-24-95	1000	H <sub>2</sub> O	5	EXTRA 1/25 FOR QC. IF NEEDED
11-13	5-24-95	1030	H <sub>2</sub> O	4	
11-18	5-24-95	1000	H <sub>2</sub> O	4	
11-9	5-23-95	1430	H <sub>2</sub> O	4	
11-2	5-23-95	1030	H <sub>2</sub> O	4	
11-1	5-23-95	1400	H <sub>2</sub> O	4	

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MAY 18 2007

Div. of Oil, Gas & Mining

Relinquished by: <u>TDG</u>	Date: <u>5-25-95</u>	Time: <u>1015</u>	Received by: <u>TDG</u>	Date: <u>5-25</u>	Time: <u>1115</u>
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

Earthmax Engineering, Inc.  
 7384 So. Union Park Avenue  
 Suite 100  
 Midvale, UT 84047  
 (801) 551-1555

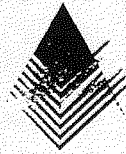
CHAIN-OF-CUSTODY FORM

SEE ATTACHMENT  
 FOR ANALYTICAL DATA

Sampling Company: <u>Earthmax Engineering, Inc.</u>	Sampling Personnel: <u>John T. Smith</u>
Project Name: <u>2005-2006 Environmental Monitoring</u>	Project Number: <u>0177-02</u>
Analytical Laboratory: <u>Earthmax Engineering, Inc.</u>	Date of Shipment/Delivery: <u>5-25-95</u>
Method of Shipment/Delivery: <u>Truck</u>	Airbill Number: <u>—</u>

Field Sample No.	Date Sampled	Time Sampled	Sample Type	No. of Containers	Remarks
SPC-MC-10	5-25-95	10:00	H <sub>2</sub> O	4	
SPC-MC-11	5-25-95	10:45	H <sub>2</sub> O	4	
SPC-MC-12	5-25-95	10:45	H <sub>2</sub> O	4	
WCSW-1	5-25-95	10:00	H <sub>2</sub> O	4	
					INCORPORATED
					MAY 18 2007
					Div. of Oil, Gas & Mining

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by: <u>L. G. Smith</u>	Date: <u>5-25-95</u>	Time: <u>10:15</u>	Received by: <u>John T. Smith</u>	Date: <u>5-25-95</u>	Time: <u>10:15</u>
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:



DATE: 6-16-95

TO: EarthFax Engineering  
7324 So. 1300 E. STE 100  
Midvale, Utah 84047

INCORPORATED

MAY 18 2007

Div. of Oil, Gas &amp; Mining

SAMPLE ID: Lab #U027274  
PROJECT: IPA Seep & Spring May 95: HCSW-1  
DATE SAMPLED: 5-24-95  
DATE SUBMITTED: 5-25-95

CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	<u>DATE ANALYZED/METHOD</u>
TDS, mg/l	468	6-01-95 EPA 160.1
Hardness as CaCO <sub>3</sub> , mg/l	326	6-01-95 EPA 130.2
Bicarbonate as HCO <sub>3</sub> , mg/l	400	6-06-95 SM 2320B
Carbonate as CO <sub>3</sub> , mg/l	6	6-06-95 SM 2320B
Chloride as Cl, mg/l	13.2	5-31-95 EPA 325.3
Fluoride as F, mg/l	0.15	6-06-95 EPA 340.2
Ammonia as NH <sub>3</sub> -N, mg/l	<.4	5-25/6-5 SM 4500G
Nitrate as NO <sub>3</sub> -N, mg/l	0.084	5-30-95 EPA 353.1
Nitrite as NO <sub>2</sub> -N, mg/l	<.005	5-25-95 EPA 354.1
Ortho Phosphate as PO <sub>4</sub> -P, mg/l	<.01	5-25-95 SM 4500E
Phosphorus as P (T), mg/l	<.02	5-25-95 SM 4500E
Sulfate as SO <sub>4</sub> , mg/l	92.3	5-29-95 EPA 375.4
Sulfide as S, mg/l	<.1	5-30-95 EPA 376.1
Aluminum as Al, mg/l	<.1	5-30-95 EPA 200.7
Arsenic as As, mg/l	<.04	5-30-95 EPA 200.7
Barium as Ba, mg/l	0.086	5-30-95 EPA 200.7
Boron as B, mg/l	0.053	5-30-95 EPA 200.7
Cadmium as Cd, mg/l	<.01	5-30-95 EPA 200.7
Calcium as Ca, mg/l	59.6	5-30-95 EPA 200.7

Approved By:





DATE: 6-16-95

TO: EarthFax Engineering  
7324 So. 1300 E. STE 100  
Midvale, Utah 84047

INCORPORATED

MAY 18 2007

Div. of Oil, Gas &amp; Mining

SAMPLE ID: Lab #U027274  
PROJECT: IPA Seep & Spring May 95: HCSW-1  
DATE SAMPLED: 5-24-95  
DATE SUBMITTED: 5-25-95

CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	<u>DATE ANALYZED/METHOD</u>
Chromium as Cr, mg/l	<.01	5-30-95 EPA 200.7
Copper as Cu, mg/l	<.01	5-30-95 EPA 200.7
Iron as Fe, mg/l	0.080	5-30-95 EPA 200.7
Lead as Pb, mg/l	<.02	5-30-95 EPA 200.7
Magnesium as Mg, mg/l	51.0	5-30-95 EPA 200.7
Manganese as Mn, mg/l	0.032	5-30-95 EPA 200.7
Mercury as Hg, mg/l	<.0002	5-31-95 EPA 245.1
Molybdenum as Mo, mg/l	<.04	5-30-95 EPA 200.7
Nickel as Ni, mg/l	<.01	5-30-95 EPA 200.7
Potassium as K, mg/l	0.871	5-30-95 EPA 200.7
Selenium as Se, mg/l	<.04	5-30-95 EPA 200.7
Sodium as Na, mg/l	48.5	5-30-95 EPA 200.7
Zinc as Zn, mg/l	<.01	5-30-95 EPA 200.7

Approved By: Joe W. Wynn



DATE: 6-16-95

TO: EarthFax Engineering  
7324 So. 1300 E. STE 100  
Midvale, Utah 84047

INCORPORATED

MAY 18 2007

Div. of Oil, Gas &amp; Mining

SAMPLE ID: Lab #U027269

PROJECT: IPA Seep &amp; Spring May 95: H-2

DATE SAMPLED: 5-24-95

DATE SUBMITTED: 5-25-95

CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	<u>DATE ANALYZED/METHOD</u>
TDS, mg/l	802	6-01-95 EPA 160.1
Hardness as CaCO <sub>3</sub> , mg/l	370	6-01-95 EPA 130.2
Bicarbonate as HCO <sub>3</sub> , mg/l	527	6-06-95 SM 2320B
Carbonate as CO <sub>3</sub> , mg/l	4	6-06-95 SM 2320B
Chloride as Cl, mg/l	18.8	5-31-95 EPA 325.3
Fluoride as F, mg/l	0.18	6-06-95 EPA 340.2
Ammonia as NH <sub>3</sub> -N, mg/l	<.4	5-25/6-5 SM 4500G
Nitrate as NO <sub>3</sub> -N, mg/l	0.31	5-30-95 EPA 353.1
Nitrite as NO <sub>2</sub> -N, mg/l	<.005	5-25-95 EPA 354.1
Ortho Phosphate as PO <sub>4</sub> -P, mg/l	<.01	5-25-95 SM 4500E
Phosphorus as P (T), mg/l	<.02	5-25-95 SM 4500E
Sulfate as SO <sub>4</sub> , mg/l	259	5-29-95 SM 4500C/D
Sulfide as S, mg/l	<.1	5-30-95 EPA 376.1
Aluminum as Al, mg/l	<.1	5-30-95 EPA 200.7
Arsenic as As, mg/l	<.04	5-30-95 EPA 200.7
Barium as Ba, mg/l	0.022	5-30-95 EPA 200.7
Boron as B, mg/l	0.149	5-30-95 EPA 200.7
Cadmium as Cd, mg/l	<.01	5-30-95 EPA 200.7
Calcium as Ca, mg/l	47.5	5-30-95 EPA 200.7

Approved By: 



DATE: 6-16-95

TO: EarthFax Engineering  
7324 So. 1300 E. STE 100  
Midvale, Utah 84047

INCORPORATED

MAY 18 2007

Div. of Oil, Gas &amp; Mining

SAMPLE ID: Lab #U027269  
PROJECT: IPA Seep & Spring May 95: H-2  
DATE SAMPLED: 5-24-95  
DATE SUBMITTED: 5-25-95

CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	<u>DATE ANALYZED/METHOD</u>
Chromium as Cr, mg/l	<.01	5-30-95 EPA 200.7
Copper as Cu, mg/l	<.01	5-30-95 EPA 200.7
Iron as Fe, mg/l	0.023	5-30-95 EPA 200.7
Lead as Pb, mg/l	<.02	5-30-95 EPA 200.7
Magnesium as Mg, mg/l	67.0	5-30-95 EPA 200.7
Manganese as Mn, mg/l	<.01	5-30-95 EPA 200.7
Mercury as Hg, mg/l	<.0002	5-31-95 EPA 245.1
Molybdenum as Mo, mg/l	<.04	5-30-95 EPA 200.7
Nickel as Ni, mg/l	<.01	5-30-95 EPA 200.7
Potassium as K, mg/l	1.42	5-30-95 EPA 200.7
Selenium as Se, mg/l	<.04	5-30-95 EPA 200.7
Sodium as Na, mg/l	155	5-30-95 EPA 200.7
Zinc as Zn, mg/l	0.025	5-30-95 EPA 200.7

Approved By: 





DATE: 6-16-95

TO: EarthFax Engineering  
7324 So. 1300 E. STE 100  
Midvale, Utah 84047

INCORPORATED

MAY 18 2007

Div. of Oil, Gas &amp; Mining

SAMPLE ID: Lab #U027264

PROJECT: IPA Seep &amp; Spring May 95: H-4

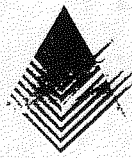
DATE SAMPLED: 5-24-95

DATE SUBMITTED: 5-25-95

CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	<u>DATE ANALYZED/METHOD</u>
TDS, mg/l	688	6-01-95 EPA 160.1
Hardness as CaCO <sub>3</sub> , mg/l	390	6-01-95 EPA 130.2
Bicarbonate as HCO <sub>3</sub> , mg/l	505	6-06-95 SM 2320B
Carbonate as CO <sub>3</sub> , mg/l	7	6-06-95 SM 2320B
Chloride as Cl, mg/l	12.2	5-31-95 EPA 325.3
Fluoride as F, mg/l	0.14	6-06-95 EPA 340.2
Ammonia as NH <sub>3</sub> -N, mg/l	<.4	5-25/6-5 SM 4500G
Nitrate as NO <sub>3</sub> -N, mg/l	<.02	5-30-95 EPA 353.1
Nitrite as NO <sub>2</sub> -N, mg/l	<.005	5-25-95 EPA 354.1
Ortho Phosphate as PO <sub>4</sub> -P, mg/l	<.01	5-25-95 SM 4500E
Phosphorus as P (T), mg/l	<.02	5-25-95 SM 4500E
Sulfate as SO <sub>4</sub> , mg/l	191	5-29-95 SM 4500C/D
Sulfide as S, mg/l	<.1	5-30-95 EPA 376.1
Aluminum as Al, mg/l	<.1	5-30-95 EPA 200.7
Arsenic as As, mg/l	<.04	5-30-95 EPA 200.7
Barium as Ba, mg/l	0.069	5-30-95 EPA 200.7
Boron as B, mg/l	0.137	5-30-95 EPA 200.7
Cadmium as Cd, mg/l	<.01	5-30-95 EPA 200.7
Calcium as Ca, mg/l	54.7	5-30-95 EPA 200.7

Approved By: Joe W. Krum



DATE: 6-16-95

TO: EarthFax Engineering  
7324 So. 1300 E. STE 100  
Midvale, Utah 84047

SAMPLE ID: Lab #U027264

PROJECT: IPA Seep &amp; Spring May 95: H-4

DATE SAMPLED: 5-24-95

DATE SUBMITTED: 5-25-95

CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	<u>DATE ANALYZED/METHOD</u>
Chromium as Cr, mg/l	<.01	5-30-95 EPA 200.7
Copper as Cu, mg/l	<.01	5-30-95 EPA 200.7
Iron as Fe, mg/l	0.195	5-30-95 EPA 200.7
Lead as Pb, mg/l	<.02	5-30-95 EPA 200.7
Magnesium as Mg, mg/l	64.6	5-30-95 EPA 200.7
Manganese as Mn, mg/l	0.035	5-30-95 EPA 200.7
Mercury as Hg, mg/l	<.0002	5-31-95 EPA 245.1
Molybdenum as Mo, mg/l	<.04	5-30-95 EPA 200.7
Nickel as Ni, mg/l	<.01	5-30-95 EPA 200.7
Potassium as K, mg/l	1.30	5-30-95 EPA 200.7
Selenium as Se, mg/l	<.04	5-30-95 EPA 200.7
Sodium as Na, mg/l	107	5-30-95 EPA 200.7
Zinc as Zn, mg/l	0.148	5-30-95 EPA 200.7

INCORPORATED

MAY 18 2007

Oil, Gas &amp; Mining

Approved By: 



DATE: 6-16-95

TO: EarthFax Engineering  
7324 So. 1300 E. STE 100  
Midvale, Utah 84047

INCORPORATED

MAY 18 2007

Div. of Oil, Gas &amp; Mining

SAMPLE ID: Lab #U027265

PROJECT: IPA Seep &amp; Spring May 95: H-11

DATE SAMPLED: 5-24-95

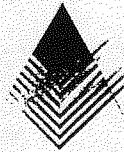
DATE SUBMITTED: 5-25-95

CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	<u>DATE ANALYZED/METHOD</u>
TDS, mg/l	655	6-01-95 EPA 160.1
Hardness as CaCO <sub>3</sub> , mg/l	422	6-01-95 EPA 130.2
Bicarbonate as HCO <sub>3</sub> , mg/l	512	6-06-95 SM 2320B
Carbonate as CO <sub>3</sub> , mg/l	2	6-06-95 SM 2320B
Chloride as Cl, mg/l	12.2	5-31-95 EPA 325.3
Fluoride as F, mg/l	0.13	6-06-95 EPA 340.2
Ammonia as NH <sub>3</sub> -N, mg/l	<.4	5-25/6-5 SM 4500G
Nitrate as NO <sub>3</sub> -N, mg/l	0.096	5-30-95 EPA 353.1
Nitrite as NO <sub>2</sub> -N, mg/l	<.005	5-25-95 EPA 354.1
Ortho Phosphate as PO <sub>4</sub> -P, mg/l	<.01	5-25-95 SM 4500E
Phosphorus as P (T), mg/l	<.02	5-25-95 SM 4500E
Sulfate as SO <sub>4</sub> , mg/l	196	5-29-95 SM 4500C/D
Sulfide as S, mg/l	0.14	5-30-95 EPA 376.1
Aluminum as Al, mg/l	0.372	5-30-95 EPA 200.7
Arsenic as As, mg/l	<.04	5-30-95 EPA 200.7
Barium as Ba, mg/l	0.108	5-30-95 EPA 200.7
Boron as B, mg/l	0.102	5-30-95 EPA 200.7
Cadmium as Cd, mg/l	<.01	5-30-95 EPA 200.7
Calcium as Ca, mg/l	62.8	5-30-95 EPA 200.7

Approved By: 





DATE: 6-16-95

TO: EarthFax Engineering  
7324 So. 1300 E. STE 100  
Midvale, Utah 84047

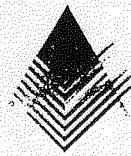
SAMPLE ID: Lab #U027265  
PROJECT: IPA Seep & Spring May 95: H-11  
DATE SAMPLED: 5-24-95  
DATE SUBMITTED: 5-25-95

INCORPORATED  
MAY 18 2007  
Div. of Oil, Gas & Mining

CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	<u>DATE ANALYZED/METHOD</u>
Chromium as Cr, mg/l	<.01	5-30-95 EPA 200.7
Copper as Cu, mg/l	<.01	5-30-95 EPA 200.7
Iron as Fe, mg/l	0.410	5-30-95 EPA 200.7
Lead as Pb, mg/l	<.02	5-30-95 EPA 200.7
Magnesium as Mg, mg/l	69.2	5-30-95 EPA 200.7
Manganese as Mn, mg/l	0.016	5-30-95 EPA 200.7
Mercury as Hg, mg/l	<.0002	5-31-95 EPA 245.1
Molybdenum as Mo, mg/l	<.04	5-30-95 EPA 200.7
Nickel as Ni, mg/l	<.01	5-30-95 EPA 200.7
Potassium as K, mg/l	2.29	5-30-95 EPA 200.7
Selenium as Se, mg/l	<.04	5-30-95 EPA 200.7
Sodium as Na, mg/l	92.1	5-30-95 EPA 200.7
Zinc as Zn, mg/l	0.012	5-30-95 EPA 200.7

Approved By: \_\_\_\_\_



DATE: 6-16-95

TO: EarthFax Engineering  
7324 So. 1300 E. STE 100  
Midvale, Utah 84047

SAMPLE ID: Lab #U027266

PROJECT: IPA Seep &amp; Spring May 95: H-13

DATE SAMPLED: 5-24-95

DATE SUBMITTED: 5-25-95

INCORPORATED  
MAY 18 2007  
Div. of Oil, Gas & Mining

CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	<u>DATE ANALYZED/METHOD</u>
TDS, mg/l	1,320	6-01-95 EPA 160.1
Hardness as CaCO <sub>3</sub> , mg/l	637	6-01-95 EPA 130.2
Bicarbonate as HCO <sub>3</sub> , mg/l	564	6-06-95 SM 2320B
Carbonate as CO <sub>3</sub> , mg/l	3	6-06-95 SM 2320B
Chloride as Cl, mg/l	22.8	5-31-95 EPA 325.3
Fluoride as F, mg/l	0.18	6-06-95 EPA 340.2
Ammonia as NH <sub>3</sub> -N, mg/l	<.4	5-25/6-5 SM 4500G
Nitrate as NO <sub>3</sub> -N, mg/l	<.02	5-30-95 EPA 353.1
Nitrite as NO <sub>2</sub> -N, mg/l	<.005	5-25-95 EPA 354.1
Ortho Phosphate as PO <sub>4</sub> -P, mg/l	<.01	5-25-95 SM 4500E
Phosphorus as P (T), mg/l	0.037	5-25-95 SM 4500E
Sulfate as SO <sub>4</sub> , mg/l	645	5-29-95 SM 4500C/D
Sulfide as S, mg/l	<.1	5-30-95 EPA 376.1
Aluminum as Al, mg/l	0.417	5-30-95 EPA 200.7
Arsenic as As, mg/l	<.04	5-30-95 EPA 200.7
Barium as Ba, mg/l	0.056	5-30-95 EPA 200.7
Boron as B, mg/l	0.205	5-30-95 EPA 200.7
Cadmium as Cd, mg/l	<.01	5-30-95 EPA 200.7
Calcium as Ca, mg/l	71.4	5-30-95 EPA 200.7

Approved By: 



DATE: 6-16-95

TO: EarthFax Engineering  
7324 So. 1300 E. STE 100  
Midvale, Utah 84047

SAMPLE ID: Lab #U027266  
PROJECT: IPA Seep & Spring May 95: H-13  
DATE SAMPLED: 5-24-95  
DATE SUBMITTED: 5-25-95

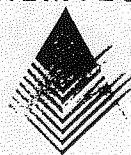
INCORPORATED  
MAY 18 2007  
Div. of Oil, Gas & Mining

CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	<u>DATE ANALYZED/METHOD</u>
Chromium as Cr, mg/l	<.01	5-30-95 EPA 200.7
Copper as Cu, mg/l	<.01	5-30-95 EPA 200.7
Iron as Fe, mg/l	0.799	5-30-95 EPA 200.7
Lead as Pb, mg/l	<.02	5-30-95 EPA 200.7
Magnesium as Mg, mg/l	114	5-30-95 EPA 200.7
Manganese as Mn, mg/l	0.078	5-30-95 EPA 200.7
Mercury as Hg, mg/l	<.0002	5-31-95 EPA 245.1
Molybdenum as Mo, mg/l	<.04	5-30-95 EPA 200.7
Nickel as Ni, mg/l	<.01	5-30-95 EPA 200.7
Potassium as K, mg/l	5.77	5-30-95 EPA 200.7
Selenium as Se, mg/l	<.04	5-30-95 EPA 200.7
Sodium as Na, mg/l	213	5-30-95 EPA 200.7
Zinc as Zn, mg/l	0.034	5-30-95 EPA 200.7

Approved By: 





DATE: 6-16-95

TO: EarthFax Engineering  
7324 So. 1300 E. STE 100  
Midvale, Utah 84047

INCORPORATED  
MAY 18 2007  
Div. of Oil, Gas & Mining

SAMPLE ID: Lab #U027263

PROJECT: IPA Seep &amp; Spring May 95: H-14

DATE SAMPLED: 5-24-95

DATE SUBMITTED: 5-25-95

CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	<u>DATE ANALYZED/METHOD</u>
TDS, mg/l	1,430	6-01-95 EPA 160.1
Hardness as CaCO <sub>3</sub> , mg/l	785	6-01-95 EPA 130.2
Bicarbonate as HCO <sub>3</sub> , mg/l	646	6-06-95 SM 2320B
Carbonate as CO <sub>3</sub> , mg/l	<1	6-06-95 SM 2320B
Chloride as Cl, mg/l	25.3	5-31-95 EPA 325.3
Fluoride as F, mg/l	0.17	6-06-95 EPA 340.2
Ammonia as NH <sub>3</sub> -N, mg/l	<.4	5-25/6-5 SM 4500G
Nitrate as NO <sub>3</sub> -N, mg/l	<.02	5-30-95 EPA 353.1
Nitrite as NO <sub>2</sub> -N, mg/l	0.0062	5-25-95 EPA 354.1
Ortho Phosphate as PO <sub>4</sub> -P, mg/l	<.01	5-25-95 SM 4500E
Phosphorus as P (T), mg/l	0.088	5-25-95 SM 4500E
Sulfate as SO <sub>4</sub> , mg/l	669	5-29-95 SM 4500C/D
Sulfide as S, mg/l	<.1	5-30-95 EPA 376.1
Aluminum as Al, mg/l	1.35	5-30-95 EPA 200.7
Arsenic as As, mg/l	<.04	5-30-95 EPA 200.7
Barium as Ba, mg/l	0.070	5-30-95 EPA 200.7
Boron as B, mg/l	0.226	5-30-95 EPA 200.7
Cadmium as Cd, mg/l	<.01	5-30-95 EPA 200.7
Calcium as Ca, mg/l	83.2	5-30-95 EPA 200.7

Approved By: Joe W. Krumm



DATE: 6-16-95

TO: EarthFax Engineering  
7324 So. 1300 E. STE 100  
Midvale, Utah 84047

SAMPLE ID: Lab #U027263

PROJECT: IPA Seep &amp; Spring May 95: H-14

DATE SAMPLED: 5-24-95

DATE SUBMITTED: 5-25-95

CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	<u>DATE ANALYZED/METHOD</u>
Chromium as Cr, mg/l	<.01	5-30-95 EPA 200.7
Copper as Cu, mg/l	<.01	5-30-95 EPA 200.7
Iron as Fe, mg/l	2.88	5-30-95 EPA 200.7
Lead as Pb, mg/l	<.02	5-30-95 EPA 200.7
Magnesium as Mg, mg/l	129	5-30-95 EPA 200.7
Manganese as Mn, mg/l	0.299	5-30-95 EPA 200.7
Mercury as Hg, mg/l	<.0002	5-31-95 EPA 245.1
Molybdenum as Mo, mg/l	<.04	5-30-95 EPA 200.7
Nickel as Ni, mg/l	<.01	5-30-95 EPA 200.7
Potassium as K, mg/l	4.96	5-30-95 EPA 200.7
Selenium as Se, mg/l	<.04	5-30-95 EPA 200.7
Sodium as Na, mg/l	240	5-30-95 EPA 200.7
Zinc as Zn, mg/l	1.40	5-30-95 EPA 200.7

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Div. of Oil, Gas &amp; Mining

Approved By: \_\_\_\_\_



DATE: 6-16-95

TO: EarthFax Engineering  
7324 So. 1300 E. STE 100  
Midvale, Utah 84047

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MAY 18 2007

Div. of Oil, Gas &amp; Mining

SAMPLE ID: Lab #U027267

PROJECT: IPA Seep &amp; Spring May 95: H-18

DATE SAMPLED: 5-24-95

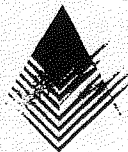
DATE SUBMITTED: 5-25-95

CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	<u>DATE ANALYZED/METHOD</u>
TDS, mg/l	790	6-01-95 EPA 160.1
Hardness as CaCO <sub>3</sub> , mg/l	336	6-01-95 EPA 130.2
Bicarbonate as HCO <sub>3</sub> , mg/l	514	6-06-95 SM 2320B
Carbonate as CO <sub>3</sub> , mg/l	9	6-06-95 SM 2320B
Chloride as Cl, mg/l	25.9	5-31-95 EPA 325.3
Fluoride as F, mg/l	0.25	6-06-95 EPA 340.2
Ammonia as NH <sub>3</sub> -N, mg/l	<.4	5-25/6-5 SM 4500G
Nitrate as NO <sub>3</sub> -N, mg/l	0.060	5-30-95 EPA 353.1
Nitrite as NO <sub>2</sub> -N, mg/l	<.005	5-25-95 EPA 354.1
Ortho Phosphate as PO <sub>4</sub> -P, mg/l	<.01	5-25-95 SM 4500E
Phosphorus as P (T), mg/l	0.023	5-25-95 SM 4500E
Sulfate as SO <sub>4</sub> , mg/l	229	5-29-95 SM 4500C/D
Sulfide as S, mg/l	<.1	5-30-95 EPA 376.1
Aluminum as Al, mg/l	<.1	5-30-95 EPA 200.7
Arsenic as As, mg/l	<.04	5-30-95 EPA 200.7
Barium as Ba, mg/l	0.086	5-30-95 EPA 200.7
Boron as B, mg/l	0.251	5-30-95 EPA 200.7
Cadmium as Cd, mg/l	<.01	5-30-95 EPA 200.7
Calcium as Ca, mg/l	49.4	5-30-95 EPA 200.7

Approved By: 





DATE: 6-16-95

TO: EarthFax Engineering  
7324 So. 1300 E. STE 100  
Midvale, Utah 84047

SAMPLE ID: Lab #U027267

PROJECT: IPA Seep &amp; Spring May 95: H-18

DATE SAMPLED: 5-24-95

DATE SUBMITTED: 5-25-95

CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	<u>DATE ANALYZED/METHOD</u>
Chromium as Cr, mg/l	<.01	5-30-95 EPA 200.7
Copper as Cu, mg/l	<.01	5-30-95 EPA 200.7
Iron as Fe, mg/l	0.076	5-30-95 EPA 200.7
Lead as Pb, mg/l	<.02	5-30-95 EPA 200.7
Magnesium as Mg, mg/l	55.4	5-30-95 EPA 200.7
Manganese as Mn, mg/l	<.01	5-30-95 EPA 200.7
Mercury as Hg, mg/l	<.0002	5-31-95 EPA 245.1
Molybdenum as Mo, mg/l	<.04	5-30-95 EPA 200.7
Nickel as Ni, mg/l	<.01	5-30-95 EPA 200.7
Potassium as K, mg/l	2.90	5-30-95 EPA 200.7
Selenium as Se, mg/l	<.04	5-30-95 EPA 200.7
Sodium as Na, mg/l	162	5-30-95 EPA 200.7
Zinc as Zn, mg/l	<.01	5-30-95 EPA 200.7

Approved By: 

INCORPORATED

MAY 18 2007

Div. of Oil, Gas &amp; Mining

LOS ANGELES DEPARTMENT OF WATER AND POWER  
SOUTH LEASE PROPERTY  
SEEP AND SPRING DATA  
AUGUST 1995

SEEP/ SPRING Number	PH (units)	COND. (umhos/cm) @ 25 deg C	FLOW RATE (gpm)	TEMP (deg C)	COMMENTS
1	8.20	670	1.5	14	
1A			DRY		
1B			WET		
2			DRY		
3	8.23	934	1	17	
3A			DRY		
3B	7.96	638	1.25	10	
3C	8.07	623	2	19	
3D	7.74	631	0.5	12	
4	8.00	856	0.25	11	
5			SEEP		
6					NOT FOUND
7	7.78	983	0.5	9	
8	7.98	676	0.25	13	
8A	8.11	688	0.5	23	
8B					NOT FOUND
9	8.01	780	0.5	14	
9R	8.19	793	1	17	
10	7.80	802	3	9.5	
10A	7.92	758	1.5	10.5	NEW SPRING--AUGUST 1995
11	8.05	1151	3	15	TOTAL FLOW AT ROAD
12			SEEP		
12A	8.20	1124	<0.25	19	
12B	8.57	1126	<0.25	31	
12C	8.66	1102	SEEP	25	
12D	8.23	1213	<0.25	14	
12E			WET		INCORPORATED
13			WET		
13A			DRY		MAY 18 2007
13B			WET		
13Z	7.78	819	0.25	16	
14	8.53	1127	1	24	Div. of Oil, Gas & Mining
14A			WET		
15			DRY		
15A			WET		
15B			DRY		
15C			WET		
16 (16Z)	7.97	818	0.75	14	WATER TANK
16A			DRY		Flow mixed w/ upgradient spring
16B			DRY		Flow mixed w/ upgradient spring
16C			DRY		
17			SEEP	18	NO SAMPLE
17A			SEEP		
17B	LOCATION ABANDONED 10/26/94				LOCATION ABANDONED
18	8.26	692	1	20	
19A	8.19	749	SEEP	18	
19B	8.17	678	0.25	13	
19C					Re-emergence of 19B
20			WET		
22			DRY		

LOS ANGELES DEPARTMENT OF WATER AND POWER  
HORSE CANYON MINE  
SEEP AND SPRING DATA  
AUGUST 1995

P/SPRING Number	PH (units)	CONDUCTIVITY (umhos/cm @ 25 deg C)	FLOW (gpm)	TEMP (deg C)	COMMENTS
HC-2	8.24	955	12	12	
HC-4	7.75	1022	0.16	13	
HC-11	7.98	966	1.5	12	
HC-13	8.03	1151	0.25	22	
HC-18	8.13	1051	0.5	11	FIELD DATA ONLY
* HC-14	8.08	1400	0.25	16	New location for Spring 95
SURFACE WATER					
Number					
HCSW-1	8.44	1110	3	16	
HCSW-2			DRY		
HCSW-3			DRY		

*No data provided for  
HC-18*

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DIV OF OIL GAS & MINING



EarthFax Engineering, Inc.  
7324 So. Union Park Avenue  
Suite 100  
Midvale, UT 84047  
(801) 561-1555

Page 1 of 1

CHAIN-OF-CUSTODY FORM

Sampling Company: <u>EARTH FAX</u>	Sampling Personnel: <u>LCD/CDH</u>
Project Name: <u>SLB seep @ Spring/Horse Canyon</u>	Project Number: <u>UC 391.02</u>
Analytical Laboratory: <u>Chemtech</u>	Date of Shipment/Delivery: <u>8-11-95</u>
Method of Shipment/Delivery: <u>Hand</u>	Airbill Number: <u>—</u>

Field Sample No.	Date Sampled	Time Sampled	Sample Type	No. of Containers	Remarks
1	8-10-95	1500	WATER	4	
9	8-10-95	1346	WATER	4	
4-18	8-10-95	1015	WATER	5	INCORPORATED
10	8-9-95	1200	WATER	<del>10</del> 4	MAY 18 2007
16	8-9-95	1134	WATER	4	
14	8-9-95	1458	WATER	4	Env. of Oil, Gas & Mining

Relinquished by: <u>CHAD HANCOCK</u>	Date: <u>8-11-95</u>	Time: <u>1103</u>	Received by: <u>Laurie Shelly</u>	Date: <u>8-11</u>	Time: <u>11:00</u>
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:



DATE: 9-06-95

TO: EarthFax Engineering  
7324 So. 1300 E. STE 100  
Midvale, Utah 84047

INCORPORATED

MAY 18 2007

Div. of Oil, Gas &amp; Mining

SAMPLE ID: Lab #U031444

PROJECT: SLB Seep &amp; Spring/Horse Canyon: #1

DATE SAMPLED: 8-10-95

DATE SUBMITTED: 8-11-95

CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	<u>DATE ANALYZED/METHOD</u>
Bicarbonate as $\text{HCO}_3$ , mg/l	433	8-16-95 SM17 2320B
Carbonate as $\text{CO}_3$ , mg/l	<1	8-16-95 SM17 2320B
Ammonia as $\text{NH}_3\text{-N}$ , mg/l	<.4	8-21-95 SM17 4500B
Chloride as Cl, mg/l	12	8-15-95 EPA 325.3
Fluoride as F, mg/l	<.2	8-15-95 EPA 340.2
Hardness as $\text{CaCO}_3$ , mg/l	365	8-17-95 EPA 130.2
Mercury as Hg, mg/l	<.0002	8-17-95 EPA 245.1
Nitrate as $\text{NO}_3\text{-N}$ , mg/l	0.090	8-22-95 EPA 353.1
Nitrite as $\text{NO}_2\text{-N}$ , mg/l	0.0086	8-11-95 EPA 354.1
Sulfate as $\text{SO}_4$ , mg/l	103	8-14-95 SM 4500
Sulfide as S, mg/l	<.1	8-17-95 EPA 376.1
TDS, mg/l	516	8-15-95 EPA 160.1
Aluminum as Al, mg/l	0.884	8-14-95 EPA 200.7
Arsenic as As, mg/l	<.04	8-14-95 EPA 200.7
Barium as Ba, mg/l	0.091	8-14-95 EPA 200.7
Boron as B, mg/l	0.12	8-14-95 EPA 200.7
Cadmium as Cd, mg/l	<.005	8-14-95 EPA 200.7
Calcium as Ca, mg/l	59.9	8-14-95 EPA 200.7
Chromium as Cr, mg/l	<.005	8-14-95 EPA 200.7
Copper as Cu, mg/l	<.01	8-14-95 EPA 200.7

Approved By: 



DATE: 9-06-95

TO: EarthFax Engineering  
7324 So. 1300 E. STE 100  
Midvale, Utah 84047

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MAY 18 2007

Div. of Oil, Gas &amp; Mining

SAMPLE ID: Lab #U031444

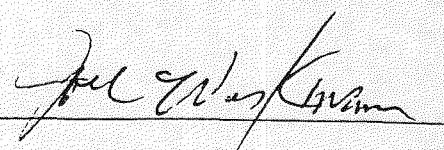
PROJECT: SLB Seep &amp; Spring/Horse Canyon: #1

DATE SAMPLED: 8-10-95

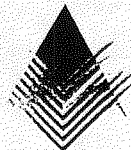
DATE SUBMITTED: 8-11-95

CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	<u>DATE ANALYZED/METHOD</u>
Iron as Fe, mg/l	1.34	8-14-95 EPA 200.7
Lead as Pb, mg/l	0.020	8-14-95 EPA 200.7
Magnesium as Mg, mg/l	50.9	8-14-95 EPA 200.7
Manganese as Mn, mg/l	0.087	8-14-95 EPA 200.7
Molybdenum as Mo, mg/l	<.01	8-14-95 EPA 200.7
Nickel as Ni, mg/l	<.01	8-14-95 EPA 200.7
Phosphorus as P, mg/l	0.078	8-23-95 SM 4500E
Potassium as K, mg/l	1.13	8-14-95 EPA 200.7
Selenium as Se, mg/l	<.04	8-14-95 EPA 200.7
Sodium as Na, mg/l	46.9	8-14-95 EPA 200.7
Zinc as Zn, mg/l	0.012	8-14-95 EPA 200.7

Approved By: 





DATE: 9-06-95

TO: EarthFax Engineering  
7324 So. 1300 E. STE 100  
Midvale, Utah 84047

SAMPLE ID: Lab #U031445

PROJECT: SLB Seep &amp; Spring/Horse Canyon: #9

DATE SAMPLED: 8-10-95

DATE SUBMITTED: 8-11-95

INCORPORATED

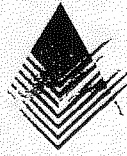
MAY 11 8 2007

Div. of Oil, Gas &amp; Mining

CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	<u>DATE ANALYZED/METHOD</u>
Bicarbonate as $\text{HCO}_3$ , mg/l	535	8-16-95 SM17 2320B
Carbonate as $\text{CO}_3$ , mg/l	<1	8-16-95 SM17 2320B
Ammonia as $\text{NH}_3\text{-N}$ , mg/l	<.4	8-21-95 SM17 4500B
Chloride as Cl, mg/l	11	8-15-95 EPA 325.3
Fluoride as F, mg/l	<.2	8-15-95 EPA 340.2
Hardness as $\text{CaCO}_3$ , mg/l	411	8-17-95 EPA 130.2
Mercury as Hg, mg/l	<.0002	8-17-95 EPA 245.1
Nitrate as $\text{NO}_3\text{-N}$ , mg/l	0.030	8-22-95 EPA 353.1
Nitrite as $\text{NO}_2\text{-N}$ , mg/l	0.0071	8-11-95 EPA 354.1
Sulfate as $\text{SO}_4$ , mg/l	110	8-14-95 SM 4500
Sulfide as S, mg/l	<.1	8-17-95 EPA 376.1
TDS, mg/l	659	8-15-95 EPA 160.1
Aluminum as Al, mg/l	0.335	8-14-95 EPA 200.7
Arsenic as As, mg/l	<.04	8-14-95 EPA 200.7
Barium as Ba, mg/l	0.104	8-14-95 EPA 200.7
Boron as B, mg/l	0.078	8-14-95 EPA 200.7
Cadmium as Cd, mg/l	<.005	8-14-95 EPA 200.7
Calcium as Ca, mg/l	64.1	8-14-95 EPA 200.7
Chromium as Cr, mg/l	<.005	8-14-95 EPA 200.7
Copper as Cu, mg/l	<.01	8-14-95 EPA 200.7

Approved By: 



DATE: 9-06-95

TO: EarthFax Engineering  
7324 So. 1300 E. STE 100  
Midvale, Utah 84047

SAMPLE ID: Lab #U031445

PROJECT: SLB Seep &amp; Spring/Horse Canyon: #9

DATE SAMPLED: 8-10-95

DATE SUBMITTED: 8-11-95

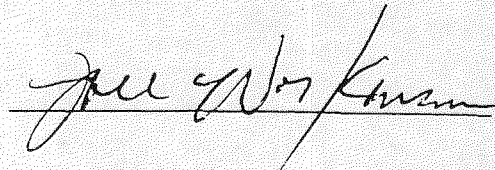
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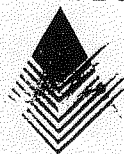
<u>PARAMETER</u>	<u>DETECTED</u>	<u>DATE ANALYZED/METHOD</u>
Iron as Fe, mg/l	0.465	8-14-95 EPA 200.7
Lead as Pb, mg/l	0.026	8-14-95 EPA 200.7
Magnesium as Mg, mg/l	56.9	8-14-95 EPA 200.7
Manganese as Mn, mg/l	0.032	8-14-95 EPA 200.7
Molybdenum as Mo, mg/l	<.01	8-14-95 EPA 200.7
Nickel as Ni, mg/l	0.013	8-14-95 EPA 200.7
Phosphorus as P, mg/l	0.024	8-23-95 SM 4500E
Potassium as K, mg/l	0.59	8-14-95 EPA 200.7
Selenium as Se, mg/l	<.04	8-14-95 EPA 200.7
Sodium as Na, mg/l	69.5	8-14-95 EPA 200.7
Zinc as Zn, mg/l	0.023	8-14-95 EPA 200.7

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Approved By: 



DATE: 9-06-95

TO: EarthFax Engineering  
7324 So. 1300 E. STE 100  
Midvale, Utah 84047

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MAY 18 2007

Div. of Oil, Gas &amp; Mining

SAMPLE ID: Lab #U031446

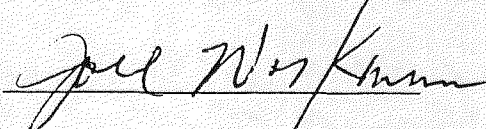
PROJECT: SLB Seep &amp; Spring/Horse Canyon: H-18

DATE SAMPLED: 8-10-95

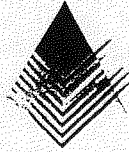
DATE SUBMITTED: 8-11-95

CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	<u>DATE ANALYZED/METHOD</u>
Bicarbonate as $\text{HCO}_3$ , mg/l	625	8-16-95 SM17 2320B
Carbonate as $\text{CO}_3$ , mg/l	<1	8-16-95 SM17 2320B
Ammonia as $\text{NH}_3\text{-N}$ , mg/l	<.4	8-21-95 SM17 4500B
Chloride as Cl, mg/l	25	8-15-95 EPA 325.3
Fluoride as F, mg/l	0.25	8-15-95 EPA 340.2
Hardness as $\text{CaCO}_3$ , mg/l	425	8-17-95 EPA 130.2
Mercury as Hg, mg/l	<.0002	8-17-95 EPA 245.1
Nitrate as $\text{NO}_3\text{-N}$ , mg/l	<.01	8-22-95 EPA 353.1
Nitrite as $\text{NO}_2\text{-N}$ , mg/l	0.0069	8-11-95 EPA 354.1
Sulfate as $\text{SO}_4$ , mg/l	303	8-14-95 SM 4500
Sulfide as S, mg/l	<.1	8-17-95 EPA 376.1
TDS, mg/l	874	8-15-95 EPA 160.1
Aluminum as Al, mg/l	0.040	8-14-95 EPA 200.7
Arsenic as As, mg/l	<.04	8-14-95 EPA 200.7
Barium as Ba, mg/l	0.104	8-14-95 EPA 200.7
Boron as B, mg/l	0.33	8-14-95 EPA 200.7
Cadmium as Cd, mg/l	<.005	8-14-95 EPA 200.7
Calcium as Ca, mg/l	60.7	8-14-95 EPA 200.7
Chromium as Cr, mg/l	<.005	8-14-95 EPA 200.7
Copper as Cu, mg/l	<.01	8-14-95 EPA 200.7

Approved By: 





DATE: 9-06-95

TO: EarthFax Engineering  
7324 So. 1300 E. STE 100  
Midvale, Utah 84047

SAMPLE ID: Lab #U031446

PROJECT: SLB Seep &amp; Spring/Horse Canyon: H-18

DATE SAMPLED: 8-10-95

DATE SUBMITTED: 8-11-95

INCORPORATED  
MAY 18 2007  
Div. of Oil, Gas & Mining

CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	<u>DATE ANALYZED/METHOD</u>
Iron as Fe, mg/l	0.095	8-14-95 EPA 200.7
Lead as Pb, mg/l	0.022	8-14-95 EPA 200.7
Magnesium as Mg, mg/l	65.8	8-14-95 EPA 200.7
Manganese as Mn, mg/l	0.041	8-14-95 EPA 200.7
Molybdenum as Mo, mg/l	<.01	8-14-95 EPA 200.7
Nickel as Ni, mg/l	<.01	8-14-95 EPA 200.7
Phosphorus as P, mg/l	<.02	8-23-95 SM 4500E
Potassium as K, mg/l	3.81	8-14-95 EPA 200.7
Selenium as Se, mg/l	<.04	8-14-95 EPA 200.7
Sodium as Na, mg/l	179	8-14-95 EPA 200.7
Zinc as Zn, mg/l	0.012	8-14-95 EPA 200.7

Approved By: 



DATE: 9-06-95

TO: EarthFax Engineering  
7324 So. 1300 E. STE 100  
Midvale, Utah 84047

INCORPORATED  
MAY 18 2007  
Div. of Oil, Gas & Mining

SAMPLE ID: Lab #U031447  
PROJECT: SLB Seep & Spring/Horse Canyon: 10  
DATE SAMPLED: 8-10-95  
DATE SUBMITTED: 8-11-95

CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	<u>DATE ANALYZED/METHOD</u>
Bicarbonate as $\text{HCO}_3$ , mg/l	472	8-16-95 SM17 2320B
Carbonate as $\text{CO}_3$ , mg/l	<1	8-16-95 SM17 2320B
Ammonia as $\text{NH}_3\text{-N}$ , mg/l	<.4	8-21-95 SM17 4500B
Chloride as Cl, mg/l	11	8-15-95 EPA 325.3
Fluoride as F, mg/l	<.2	8-15-95 EPA 340.2
Hardness as $\text{CaCO}_3$ , mg/l	440	8-17-95 EPA 130.2
Mercury as Hg, mg/l	<.0002	8-17-95 EPA 245.1
Nitrate as $\text{NO}_3\text{-N}$ , mg/l	0.052	8-22-95 EPA 353.1
Nitrite as $\text{NO}_2\text{-N}$ , mg/l	0.0056	8-11-95 EPA 354.1
Sulfate as $\text{SO}_4$ , mg/l	184	8-14-95 SM 4500
Sulfide as S, mg/l	<.1	8-17-95 EPA 376.1
TDS, mg/l	634	8-15-95 EPA 160.1
Aluminum as Al, mg/l	0.030	8-14-95 EPA 200.7
Arsenic as As, mg/l	<.04	8-14-95 EPA 200.7
Barium as Ba, mg/l	0.038	8-14-95 EPA 200.7
Boron as B, mg/l	0.061	8-14-95 EPA 200.7
Cadmium as Cd, mg/l	<.005	8-14-95 EPA 200.7
Calcium as Ca, mg/l	71.8	8-14-95 EPA 200.7
Chromium as Cr, mg/l	<.005	8-14-95 EPA 200.7
Copper as Cu, mg/l	<.01	8-14-95 EPA 200.7

Approved By: 



DATE: 9-06-95

TO: EarthFax Engineering  
7324 So. 1300 E. STE 100  
Midvale, Utah 84047

INCORPORATED

MAY 18 2007

Div. of Oil, Gas &amp; Mining

SAMPLE ID: Lab #U031447

PROJECT: SLB Seep &amp; Spring/Horse Canyon: 10

DATE SAMPLED: 8-10-95

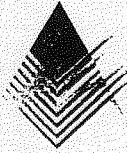
DATE SUBMITTED: 8-11-95

CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	<u>DATE ANALYZED/METHOD</u>
Iron as Fe, mg/l	0.039	8-14-95 EPA 200.7
Lead as Pb, mg/l	<.02	8-14-95 EPA 200.7
Magnesium as Mg, mg/l	58.0	8-14-95 EPA 200.7
Manganese as Mn, mg/l	<.01	8-14-95 EPA 200.7
Molybdenum as Mo, mg/l	<.01	8-14-95 EPA 200.7
Nickel as Ni, mg/l	<.01	8-14-95 EPA 200.7
Phosphorus as P, mg/l	<.02	8-23-95 SM 4500E
Potassium as K, mg/l	0.84	8-14-95 EPA 200.7
Selenium as Se, mg/l	<.04	8-14-95 EPA 200.7
Sodium as Na, mg/l	60.2	8-14-95 EPA 200.7
Zinc as Zn, mg/l	<.01	8-14-95 EPA 200.7

Approved By: 





DATE: 9-06-95

TO: EarthFax Engineering  
7324 So. 1300 E. STE 100  
Midvale, Utah 84047

INCORPORATED

MAY 18 2007

Div. of Oil, Gas &amp; Mining

SAMPLE ID: Lab #U031448

PROJECT: SLB Seep &amp; Spring/Horse Canyon: #16

DATE SAMPLED: 8-10-95

DATE SUBMITTED: 8-11-95

CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	<u>DATE ANALYZED/METHOD</u>
Bicarbonate as $\text{HCO}_3$ , mg/l	530	8-16-95 SM17 2320B
Carbonate as $\text{CO}_3$ , mg/l	<1	8-16-95 SM17 2320B
Ammonia as $\text{NH}_3\text{-N}$ , mg/l	<.4	8-21-95 SM17 4500B
Chloride as Cl, mg/l	17	8-15-95 EPA 325.3
Fluoride as F, mg/l	<.2	8-15-95 EPA 340.2
Hardness as $\text{CaCO}_3$ , mg/l	350	8-17-95 EPA 130.2
Mercury as Hg, mg/l	<.0002	8-17-95 EPA 245.1
Nitrate as $\text{NO}_3\text{-N}$ , mg/l	0.014	8-22-95 EPA 353.1
Nitrite as $\text{NO}_2\text{-N}$ , mg/l	0.0056	8-11-95 EPA 354.1
Sulfate as $\text{SO}_4$ , mg/l	134	8-14-95 SM 4500
Sulfide as S, mg/l	0.15	8-17-95 EPA 376.1
TDS, mg/l	627	8-15-95 EPA 160.1
Aluminum as Al, mg/l	0.018	8-14-95 EPA 200.7
Arsenic as As, mg/l	<.04	8-14-95 EPA 200.7
Barium as Ba, mg/l	0.059	8-14-95 EPA 200.7
Boron as B, mg/l	0.12	8-14-95 EPA 200.7
Cadmium as Cd, mg/l	<.005	8-14-95 EPA 200.7
Calcium as Ca, mg/l	49.4	8-14-95 EPA 200.7
Chromium as Cr, mg/l	<.005	8-14-95 EPA 200.7
Copper as Cu, mg/l	<.01	8-14-95 EPA 200.7

Approved By: 



DATE: 9-06-95

TO: EarthFax Engineering  
7324 So. 1300 E. STE 100  
Midvale, Utah 84047

INCORPORATED

MAY 18 2007

Div. of Oil, Gas &amp; Mining

SAMPLE ID: Lab #U031448

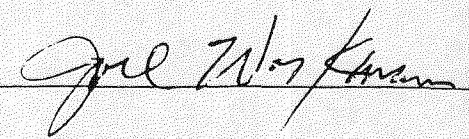
PROJECT: SLB Seep &amp; Spring/Horse Canyon: #16

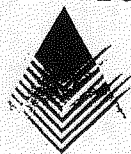
DATE SAMPLED: 8-10-95

DATE SUBMITTED: 8-11-95

CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	<u>DATE ANALYZED/METHOD</u>
Iron as Fe, mg/l	0.115	8-14-95 EPA 200.7
Lead as Pb, mg/l	0.024	8-14-95 EPA 200.7
Magnesium as Mg, mg/l	54.1	8-14-95 EPA 200.7
Manganese as Mn, mg/l	<.01	8-14-95 EPA 200.7
Molybdenum as Mo, mg/l	<.01	8-14-95 EPA 200.7
Nickel as Ni, mg/l	<.01	8-14-95 EPA 200.7
Phosphorus as P, mg/l	<.02	8-23-95 SM 4500E
Potassium as K, mg/l	0.58	8-14-95 EPA 200.7
Selenium as Se, mg/l	<.04	8-14-95 EPA 200.7
Sodium as Na, mg/l	105	8-14-95 EPA 200.7
Zinc as Zn, mg/l	0.028	8-14-95 EPA 200.7

Approved By: 



DATE: 9-06-95

TO: EarthFax Engineering  
7324 So. 1300 E. STE 100  
Midvale, Utah 84047

SAMPLE ID: Lab #U031449

PROJECT: SLB Seep &amp; Spring/Horse Canyon: #14

DATE SAMPLED: 8-10-95

DATE SUBMITTED: 8-11-95

INCORPORATED

MAY 18 2007

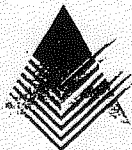
Div. of Oil, Gas &amp; Mining

CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	<u>DATE ANALYZED/METHOD</u>
Bicarbonate as $\text{HCO}_3$ , mg/l	593	8-16-95 SM17 2320B
Carbonate as $\text{CO}_3$ , mg/l	<1	8-16-95 SM17 2320B
Ammonia as $\text{NH}_3\text{-N}$ , mg/l	<.4	8-21-95 SM17 4500B
Chloride as Cl, mg/l	44	8-15-95 EPA 325.3
Fluoride as F, mg/l	0.23	8-15-95 EPA 340.2
Hardness as $\text{CaCO}_3$ , mg/l	556	8-17-95 EPA 130.2
Mercury as Hg, mg/l	<.0002	8-17-95 EPA 245.1
Nitrate as $\text{NO}_3\text{-N}$ , mg/l	<.01	8-22-95 EPA 353.1
Nitrite as $\text{NO}_2\text{-N}$ , mg/l	0.0078	8-11-95 EPA 354.1
Sulfate as $\text{SO}_4$ , mg/l	700	8-14-95 SM 4500
Sulfide as S, mg/l	0.25	8-17-95 EPA 376.1
TDS, mg/l	1,500	8-15-95 EPA 160.1
Aluminum as Al, mg/l	0.134	8-14-95 EPA 200.7
Arsenic as As, mg/l	<.04	8-14-95 EPA 200.7
Barium as Ba, mg/l	0.091	8-14-95 EPA 200.7
Boron as B, mg/l	0.23	8-14-95 EPA 200.7
Cadmium as Cd, mg/l	<.005	8-14-95 EPA 200.7
Calcium as Ca, mg/l	57.8	8-14-95 EPA 200.7
Chromium as Cr, mg/l	<.01	8-14-95 EPA 200.7
Copper as Cu, mg/l	<.01	8-14-95 EPA 200.7

Approved By: 





DATE: 9-06-95

TO: EarthFax Engineering  
7324 So. 1300 E. STE 100  
Midvale, Utah 84047

SAMPLE ID: Lab #U031449  
PROJECT: SLB Seep & Spring/Horse Canyon: #14  
DATE SAMPLED: 8-10-95  
DATE SUBMITTED: 8-11-95

CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	<u>DATE ANALYZED/METHOD</u>
Iron as Fe, mg/l	0.162	8-14-95 EPA 200.7
Lead as Pb, mg/l	<.02	8-14-95 EPA 200.7
Magnesium as Mg, mg/l	101	8-14-95 EPA 200.7
Manganese as Mn, mg/l	0.013	8-14-95 EPA 200.7
Molybdenum as Mo, mg/l	<.01	8-14-95 EPA 200.7
Nickel as Ni, mg/l	<.01	8-14-95 EPA 200.7
Phosphorus as P, mg/l	0.023	8-23-95 SM 4500E
Potassium as K, mg/l	1.35	8-14-95 EPA 200.7
Selenium as Se, mg/l	<.04	8-14-95 EPA 200.7
Sodium as Na, mg/l	286	8-14-95 EPA 200.7
Zinc as Zn, mg/l	0.024	8-14-95 EPA 200.7

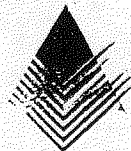
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MAY 18 2007  
Div. of Oil, Gas & Mining

Approved By:

Page 1 of 1

Sampling Company: <i>EARTHTECH</i>	Sampling Personnel: <i>J. J. J. J.</i>
Project Name: <i>House (4000 sq. ft.) - 10000</i>	Project Number: <i>10000</i>
Analytical Laboratory: <i>Johnson</i>	Date of Shipment/Delivery:
Method of Shipment/Delivery: <i>Hand</i>	Airbill Number: <i>_____</i>

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DATE: 9-12-95

TO: EarthFax Engineering  
7324 So. 1300 E. STE 100  
Midvale, Utah 84047

INCORPORATED

MAY 18 2007

Div. of Oil, Gas &amp; Mining

SAMPLE ID: Lab #U031343

PROJECT: Horse Canyon Seep &amp; Spring: HCSW-1

DATE SAMPLED: 8-08-95

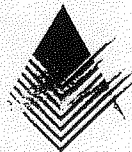
DATE SUBMITTED: 8-10-95

CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	<u>DATE ANALYZED/METHOD</u>
Bicarbonate as $\text{HCO}_3$ , mg/l	592	8-16-95 SM17 2320B
Carbonate as $\text{CO}_3$ , mg/l	<1	8-16-95 SM17 2320B
Ammonia as $\text{NH}_3\text{-N}$ , mg/l	<.4	8-17-95 SM 4500
Chloride as Cl, mg/l	19	8-15-95 EPA 325.3
Fluoride as F, mg/l	0.28	8-15-95 EPA 340.2
Hardness as $\text{CaCO}_3$ , mg/l	407	8-17-95 EPA 130.2
Mercury as Hg, mg/l	<.0002	8-15-95 EPA 245.1
Nitrate as $\text{NO}_3\text{-N}$ , mg/l	0.15	8-16-95 EPA 353.1
Nitrite as $\text{NO}_2\text{-N}$ , mg/l	0.0089	8-10-95 EPA 354.1
Ortho Phosphate as $\text{PO}_4\text{-P}$ , mg/l	<.01	8-11-95 SM17 4500E
Phosphorus as P (T), mg/l	<.02	8-22-95 SM17 4500E
Sulfate as $\text{SO}_4$ , mg/l	299	8-14-95 SM 4500
Sulfide as S, mg/l	<.1	8-17-95 EPA 376.1
TDS, mg/l	924	8-14-95 EPA 160.1
Aluminum as Al, mg/l	0.059	8-14-95 EPA 200.7
Arsenic as As, mg/l	<.04	8-14-95 EPA 200.7
Barium as Ba, mg/l	0.055	8-14-95 EPA 200.7
Boron as B, mg/l	0.22	8-14-95 EPA 200.7
Cadmium as Cd, mg/l	<.01	8-14-95 EPA 200.7

Approved By:





DATE: 9-12-95

TO: EarthFax Engineering  
7324 So. 1300 E. STE 100  
Midvale, Utah 84047

INCORPORATED

MAY 18 2007

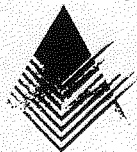
Div. of Oil, Gas &amp; Mining

SAMPLE ID: Lab #U031343  
PROJECT: Horse Canyon Seep & Spring: HCSW-1  
DATE SAMPLED: 8-08-95  
DATE SUBMITTED: 8-10-95

CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	<u>DATE ANALYZED/METHOD</u>
Calcium as Ca, mg/l	54	8-14-95 EPA 200.7
Chromium as Cr, mg/l	<.01	8-14-95 EPA 200.7
Copper as Cu, mg/l	<.01	8-14-95 EPA 200.7
Iron as Fe, mg/l	0.076	8-14-95 EPA 200.7
Lead as Pb, mg/l	<.02	8-14-95 EPA 200.7
Magnesium as Mg, mg/l	66	8-14-95 EPA 200.7
Manganese as Mn, mg/l	0.016	8-14-95 EPA 200.7
Molybdenum as Mo, mg/l	<.01	8-14-95 EPA 200.7
Nickel as Ni, mg/l	<.01	8-14-95 EPA 200.7
Potassium as K, mg/l	4.3	8-14-95 EPA 200.7
Selenium as Se, mg/l	<.04	8-14-95 EPA 200.7
Sodium as Na, mg/l	170	8-14-95 EPA 200.7
Zinc as Zn, mg/l	0.076	8-14-95 EPA 200.7
Oil & Grease, mg/l	<5	8-15-95 EPA 413.1

Approved By: 



DATE: 9-12-95

TO: EarthFax Engineering  
7324 So. 1300 E. STE 100  
Midvale, Utah 84047

INCORPORATED

MAY 18 2007

Div. of Oil, Gas &amp; Mining

SAMPLE ID: Lab #U031345

PROJECT: Horse Canyon Seep &amp; Spring: H-2

DATE SAMPLED: 8-08-95

DATE SUBMITTED: 8-10-95

CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	<u>DATE ANALYZED/METHOD</u>
Bicarbonate as $\text{HCO}_3$ , mg/l	561	8-16-95 SM17 2320B
Carbonate as $\text{CO}_3$ , mg/l	<1	8-16-95 SM17 2320B
Ammonia as $\text{NH}_3\text{-N}$ , mg/l	<.4	8-17-95 SM 4500
Chloride as Cl, mg/l	17	8-15-95 EPA 325.3
Fluoride as F, mg/l	<.2	8-15-95 EPA 340.2
Hardness as $\text{CaCO}_3$ , mg/l	393	8-17-95 EPA 130.2
Mercury as Hg, mg/l	<.0002	8-15-95 EPA 245.1
Nitrate as $\text{NO}_3\text{-N}$ , mg/l	0.307	8-16-95 EPA 353.1
Nitrite as $\text{NO}_2\text{-N}$ , mg/l	0.0052	8-10-95 EPA 354.1
Ortho Phosphate as $\text{PO}_4\text{-P}$ , mg/l	<.01	8-11-95 SM17 4500E
Phosphorus as P (T), mg/l	<.02	8-22-95 SM17 4500E
Sulfate as $\text{SO}_4$ , mg/l	260	8-14-95 SM 4500
Sulfide as S, mg/l	0.17	8-17-95 EPA 376.1
TDS, mg/l	823	8-14-95 EPA 160.1
Aluminum as Al, mg/l	<.01	8-14-95 EPA 200.7
Arsenic as As, mg/l	<.04	8-14-95 EPA 200.7
Barium as Ba, mg/l	0.022	8-14-95 EPA 200.7
Boron as B, mg/l	0.15	8-14-95 EPA 200.7
Cadmium as Cd, mg/l	<.01	8-14-95 EPA 200.7

Approved By: 



INCORPORATED

MAY 18 2007

Div. of Oil, Gas &amp; Mining

DATE: 9-12-95

TO: EarthFax Engineering  
7324 So. 1300 E. STE 100  
Midvale, Utah 84047

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MAY 18 2007

Div. of Oil, Gas &amp; Mining

SAMPLE ID: Lab #U031345

PROJECT: Horse Canyon Seep &amp; Spring: H-2

DATE SAMPLED: 8-08-95

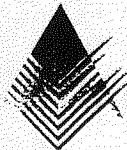
DATE SUBMITTED: 8-10-95

CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	<u>DATE ANALYZED/METHOD</u>
Calcium as Ca, mg/l	46	8-14-95 EPA 200.7
Chromium as Cr, mg/l	<.01	8-14-95 EPA 200.7
Copper as Cu, mg/l	<.01	8-14-95 EPA 200.7
Iron as Fe, mg/l	0.023	8-14-95 EPA 200.7
Lead as Pb, mg/l	<.02	8-14-95 EPA 200.7
Magnesium as Mg, mg/l	65	8-14-95 EPA 200.7
Manganese as Mn, mg/l	<.01	8-14-95 EPA 200.7
Molybdenum as Mo, mg/l	<.04	8-14-95 EPA 200.7
Nickel as Ni, mg/l	<.01	8-14-95 EPA 200.7
Potassium as K, mg/l	1.4	8-14-95 EPA 200.7
Selenium as Se, mg/l	<.04	8-14-95 EPA 200.7
Sodium as Na, mg/l	150	8-14-95 EPA 200.7
Zinc as Zn, mg/l	0.058	8-14-95 EPA 200.7

Approved By: Joel W. Krum





DATE: 9-12-95

TO: EarthFax Engineering  
7324 So. 1300 E. STE 100  
Midvale, Utah 84047

SAMPLE ID: Lab #U031344

PROJECT: Horse Canyon Seep &amp; Spring: H-4

DATE SAMPLED: 8-08-95

DATE SUBMITTED: 8-10-95

INCORPORATED  
MAY 18 2007  
Div. of Oil, Gas & Mining

CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	<u>DATE ANALYZED/METHOD</u>
Bicarbonate as $\text{HCO}_3$ , mg/l	635	8-16-95 SM17 2320B
Carbonate as $\text{CO}_3$ , mg/l	<1	8-16-95 SM17 2320B
Ammonia as $\text{NH}_3\text{-N}$ , mg/l	<.4	8-17-95 SM 4500
Chloride as Cl, mg/l	13	8-15-95 EPA 325.3
Fluoride as F, mg/l	<.2	8-15-95 EPA 340.2
Hardness as $\text{CaCO}_3$ , mg/l	376	8-17-95 EPA 130.2
Mercury as Hg, mg/l	<.0002	8-15-95 EPA 245.1
Nitrate as $\text{NO}_3\text{-N}$ , mg/l	0.083	8-16-95 EPA 353.1
Nitrite as $\text{NO}_2\text{-N}$ , mg/l	0.0064	8-10-95 EPA 354.1
Ortho Phosphate as $\text{PO}_4\text{-P}$ , mg/l	0.107	8-11-95 SM17 4500E
Phosphorus as P (T), mg/l	0.11	8-22-95 SM17 4500E
Sulfate as $\text{SO}_4$ , mg/l	212	8-14-95 SM 4500
Sulfide as S, mg/l	<.1	8-17-95 EPA 376.1
TDS, mg/l	821	8-14-95 EPA 160.1
Aluminum as Al, mg/l	1.02	8-14-95 EPA 200.7
Arsenic as As, mg/l	<.04	8-14-95 EPA 200.7
Barium as Ba, mg/l	0.081	8-14-95 EPA 200.7
Boron as B, mg/l	0.14	8-14-95 EPA 200.7
Cadmium as Cd, mg/l	<.01	8-14-95 EPA 200.7

Approved By:



DATE: 9-12-95

TO: EarthFax Engineering  
7324 So. 1300 E. STE 100  
Midvale, Utah 84047

SAMPLE ID: Lab #U031344

PROJECT: Horse Canyon Seep &amp; Spring: H-4

DATE SAMPLED: 8-08-95

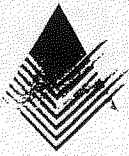
DATE SUBMITTED: 8-10-95

INCORPORATED  
MAY 18 2007  
Div. of Oil, Gas & Mining

CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	<u>DATE ANALYZED/METHOD</u>
Calcium as Ca, mg/l	60	8-14-95 EPA 200.7
Chromium as Cr, mg/l	<.01	8-14-95 EPA 200.7
Copper as Cu, mg/l	<.01	8-14-95 EPA 200.7
Iron as Fe, mg/l	3.5	8-14-95 EPA 200.7
Lead as Pb, mg/l	<.02	8-14-95 EPA 200.7
Magnesium as Mg, mg/l	66	8-14-95 EPA 200.7
Manganese as Mn, mg/l	0.13	8-14-95 EPA 200.7
Molybdenum as Mo, mg/l	<.04	8-14-95 EPA 200.7
Nickel as Ni, mg/l	<.01	8-14-95 EPA 200.7
Potassium as K, mg/l	1.5	8-14-95 EPA 200.7
Selenium as Se, mg/l	<.04	8-14-95 EPA 200.7
Sodium as Na, mg/l	105	8-14-95 EPA 200.7
Zinc as Zn, mg/l	0.13	8-14-95 EPA 200.7

Approved By: John W. Kenna



DATE: 9-12-95

TO: EarthFax Engineering  
7324 So. 1300 E. STE 100  
Midvale, Utah 84047

INCORPORATED  
MAY 18 2007  
Div. of Oil, Gas & Mining

SAMPLE ID: Lab #U031346

PROJECT: Horse Canyon Seep &amp; Spring: H-11

DATE SAMPLED: 8-08-95

DATE SUBMITTED: 8-10-95

CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	<u>DATE ANALYZED/METHOD</u>
Bicarbonate as $\text{HCO}_3$ , mg/l	590	8-16-95 SM17 2320B
Carbonate as $\text{CO}_3$ , mg/l	<1	8-16-95 SM17 2320B
Ammonia as $\text{NH}_3\text{-N}$ , mg/l	<.4	8-17-95 SM 4500
Chloride as Cl, mg/l	11	8-15-95 EPA 325.3
Fluoride as F, mg/l	<.2	8-15-95 EPA 340.2
Hardness as $\text{CaCO}_3$ , mg/l	468	8-17-95 EPA 130.2
Mercury as Hg, mg/l	<.0002	8-15-95 EPA 245.1
Nitrate as $\text{NO}_3\text{-N}$ , mg/l	0.021	8-16-95 EPA 353.1
Nitrite as $\text{NO}_2\text{-N}$ , mg/l	0.0071	8-10-95 EPA 354.1
Ortho Phosphate as $\text{PO}_4\text{-P}$ , mg/l	<.01	8-11-95 SM17 4500E
Phosphorus as P (T), mg/l	<.02	8-22-95 SM17 4500E
Sulfate as $\text{SO}_4$ , mg/l	208	8-14-95 SM 4500
Sulfide as S, mg/l	<.1	8-17-95 EPA 376.1
TDS, mg/l	762	8-14-95 EPA 160.1
Aluminum as Al, mg/l	0.064	8-14-95 EPA 200.7
Arsenic as As, mg/l	<.04	8-14-95 EPA 200.7
Barium as Ba, mg/l	0.065	8-14-95 EPA 200.7
Boron as B, mg/l	0.10	8-14-95 EPA 200.7
Cadmium as Cd, mg/l	<.01	8-14-95 EPA 200.7

Approved By:





DATE: 9-12-95

TO: EarthFax Engineering  
7324 So. 1300 E. STE 100  
Midvale, Utah 84047

SAMPLE ID: Lab #U031346

PROJECT: Horse Canyon Seep &amp; Spring: H-11

DATE SAMPLED: 8-08-95

DATE SUBMITTED: 8-10-95

INCORPORATED  
MAY 18 2007  
Div. of Oil, Gas & Mining

CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	<u>DATE ANALYZED/METHOD</u>
Calcium as Ca, mg/l	66	8-14-95 EPA 200.7
Chromium as Cr, mg/l	<.01	8-14-95 EPA 200.7
Copper as Cu, mg/l	<.01	8-14-95 EPA 200.7
Iron as Fe, mg/l	0.11	8-14-95 EPA 200.7
Lead as Pb, mg/l	<.02	8-14-95 EPA 200.7
Magnesium as Mg, mg/l	75	8-14-95 EPA 200.7
Manganese as Mn, mg/l	0.017	8-14-95 EPA 200.7
Molybdenum as Mo, mg/l	<.04	8-14-95 EPA 200.7
Nickel as Ni, mg/l	<.01	8-14-95 EPA 200.7
Potassium as K, mg/l	2.2	8-14-95 EPA 200.7
Selenium as Se, mg/l	<.04	8-14-95 EPA 200.7
Sodium as Na, mg/l	97	8-14-95 EPA 200.7
Zinc as Zn, mg/l	0.067	8-14-95 EPA 200.7

Approved By: 



DATE: 9-12-95

TO: EarthFax Engineering  
7324 So. 1300 E. STE 100  
Midvale, Utah 84047

SAMPLE ID: Lab #U031347

PROJECT: Horse Canyon Seep &amp; Spring: H-13

DATE SAMPLED: 8-08-95

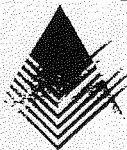
DATE SUBMITTED: 8-10-95

INCORPORATED  
MAY 18 2007  
Div. of Oil, Gas & Mining

CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	<u>DATE ANALYZED/METHOD</u>
Bicarbonate as $\text{HCO}_3$ , mg/l	611	8-16-95 SM17 2320B
Carbonate as $\text{CO}_3$ , mg/l	<1	8-16-95 SM17 2320B
Ammonia as $\text{NH}_3\text{-N}$ , mg/l	<.4	8-17-95 SM 4500
Chloride as Cl, mg/l	23	8-15-95 EPA 325.3
Fluoride as F, mg/l	0.21	8-15-95 EPA 340.2
Hardness as $\text{CaCO}_3$ , mg/l	646	8-17-95 EPA 130.2
Mercury as Hg, mg/l	<.0002	8-15-95 EPA 245.1
Nitrate as $\text{NO}_3\text{-N}$ , mg/l	<.02	8-16-95 EPA 353.1
Nitrite as $\text{NO}_2\text{-N}$ , mg/l	0.013	8-10-95 EPA 354.1
Ortho Phosphate as $\text{PO}_4\text{-P}$ , mg/l	<.01	8-11-95 SM17 4500E
Phosphorus as P (T), mg/l	<.02	8-22-95 SM17 4500E
Sulfate as $\text{SO}_4$ , mg/l	648	8-14-95 SM 4500
Sulfide as S, mg/l	<.1	8-17-95 EPA 376.1
TDS, mg/l	1,400	8-14-95 EPA 160.1
Aluminum as Al, mg/l	0.021	8-14-95 EPA 200.7
Arsenic as As, mg/l	<.04	8-14-95 EPA 200.7
Barium as Ba, mg/l	0.081	8-14-95 EPA 200.7
Boron as B, mg/l	0.22	8-14-95 EPA 200.7
Cadmium as Cd, mg/l	<.01	8-14-95 EPA 200.7

Approved By: Paul W. Krum



To: EARTH FAX ENGINEERING  
7324 So. 1300 E. STE 100  
Midvale, UT 84047

Date: 11/ 8/95

Group #: 4814  
Lab #: 95-U035460  
Project: HORSE CANYON  
Sample Desc: H-13  
Date Sampled: 10/18/95  
Date Submitted: 10/19/95

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### CERTIFICATE OF ANALYSIS

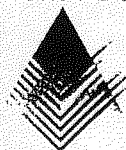
PARAMETER	RESULT	MDL	DATE ANALYZED	METHOD	ANALYST
INORGANIC PARAMETERS					
Magnesium (T), as Mg, mg/L	136	0.1	10/30/95 15:14	EPA 200.7	LH
Manganese (T), as Mn, mg/L	0.76	0.01	10/30/95 15:14	EPA 200.7	LH
Molybdenum (T), as Mo, mg/L	< 0.01	0.01	10/30/95 15:14	EPA 200.7	LH
Nickel (T), as Ni, mg/L	0.03	0.01	10/30/95 15:14	EPA 200.7	LH
Potassium (T), as K, mg/L	6.5	0.1	10/30/95 15:14	EPA 200.7	LH
Selenium (T), as Se, mg/L	< 0.04	0.04	10/30/95 15:14	EPA 200.7	LH
Sodium (T), as Na, mg/L	208	0.2	10/30/95 15:14	EPA 200.7	LH
Zinc (T), as Zn, mg/L	0.08	0.02	10/30/95 15:14	EPA 200.7	LH

NOTE: Nitrite was run past holding time due to late arrival and size of project.

Approved By: \_\_\_\_\_

{generic.rpt}





To: EARTH FAX ENGINEERING  
7324 So. 1300 E. STE 100  
Midvale, UT 84047

Date: 11/ 8/95

Group #: 4814  
Lab #: 95-U035459  
Project: HORSE CANYON  
Sample Desc: H-14  
Date Sampled: 10/18/95  
Date Submitted: 10/19/95

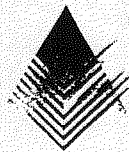
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MAY 18 2007  
Div. of Oil, Gas & Mining

### CERTIFICATE OF ANALYSIS

PARAMETER	RESULT	MDL	DATE ANALYZED	METHOD	ANALYST
INORGANIC PARAMETERS					
Bicarbonate as HCO <sub>3</sub> , mg/L	684	1	10/23/95 10:00	SM 2320B	TM
Carbonate as CO <sub>3</sub> , mg/L	< 1	1	10/23/95 10:00	SM 2320B	TM
Ammonia-Nitrogen, mg/L	< 0.4	0.4	10/27/95 12:40	SM 4500G/F	DI
Chloride, mg/L	22	1	11/ 4/95 10:00	EPA 325.3	TM
Fluoride, mg/L	0.2	0.2	10/31/95 11:40	EPA 340.2	DI
Hardness, EDTA Titration, mg/L	761	10	10/25/95 9:30	EPA 130.2	TM
Mercury, as Hg, mg/L	< 0.0002	0.0002	11/ 2/95 9:05	EPA 245.1	TH
Nitrate, Nitrogen, mg/L	< 0.02	0.02	10/28/95 14:45	EPA 353.1	TH
Nitrite, Nitrogen, mg/L	0.010	0.005	10/20/95 9:30	EPA 354.1	KA
Phosphorus, Total, mg/L	0.04	0.01	10/25/95 15:00	SM 4500-P	KA
Sulfate, mg/L	617	30	11/ 2/95 11:30	EPA 375.4	TM
Sulfide, mg/L	< 0.1	0.1	10/23/95 17:00	EPA 376.1	KA
Total Dissolved Solids, mg/L	1,440	10	10/23/95 15:30	EPA 160.1	MA
Aluminum (T), as Al, mg/L	2.03	0.02	10/30/95 15:12	EPA 200.7	LH
Arsenic (T), as As, mg/L	< 0.02	0.02	10/30/95 15:12	EPA 200.7	LH
Barium (T), as Ba, mg/L	0.07	0.02	10/30/95 15:12	EPA 200.7	LH
Boron (T), as B, mg/L	0.2	0.1	10/30/95 15:12	EPA 200.7	LH
Cadmium (T), as Cd, mg/L	< 0.005	0.005	10/30/95 15:12	EPA 200.7	LH
Calcium (T), as Ca, mg/L	72.3	0.2	10/30/95 15:12	EPA 200.7	LH
Chromium(T), as Cr, mg/L	0.005	0.005	10/30/95 15:12	EPA 200.7	LH
Copper (T), as Cu, mg/L	0.01	0.01	10/30/95 15:12	EPA 200.7	LH
Iron (T), as Fe, mg/L	3.49	0.04	10/30/95 15:12	EPA 200.7	LH
Lead (T), as Pb, mg/L	< 0.01	0.01	10/30/95 15:12	EPA 200.7	LH

Approved By: \_\_\_\_\_

{generic.rpt}



To: EARTH FAX ENGINEERING  
7324 So. 1300 E. STE 100  
Midvale, UT 84047

Date: 11/ 8/95

Group #: 4814  
Lab #: 95-U035459  
Project: HORSE CANYON  
Sample Desc: H-14  
Date Sampled: 10/18/95  
Date Submitted: 10/19/95

INCORPORATED  
MAY 18 2007  
Div. of Oil, Gas & Mining

### CERTIFICATE OF ANALYSIS

PARAMETER	RESULT	MDL	DATE		METHOD	ANALYST
			ANALYZED			
INORGANIC PARAMETERS						
Magnesium (T), as Mg, mg/L	109	0.1	10/30/95	15:12	EPA 200.7	LH
Manganese (T), as Mn, mg/L	0.24	0.01	10/30/95	15:12	EPA 200.7	LH
Molybdenum (T), as Mo, mg/L	< 0.01	0.01	10/30/95	15:12	EPA 200.7	LH
Nickel (T), as Ni, mg/L	< 0.01	0.01	10/30/95	15:12	EPA 200.7	LH
Potassium (T), as K, mg/L	4.1	0.1	10/30/95	15:12	EPA 200.7	LH
Selenium (T), as Se, mg/L	< 0.04	0.04	10/30/95	15:12	EPA 200.7	LH
Sodium (T), as Na, mg/L	195	0.2	10/30/95	15:12	EPA 200.7	LH
Zinc (T), as Zn, mg/L	< 0.02	0.02	10/30/95	15:12	EPA 200.7	LH

NOTE: Nitrite was run past holding time due to late arrival and size of project.

Approved By: \_\_\_\_\_

{generic.rpt}



To: EARTH FAX ENGINEERING  
7324 So. 1300 E. STE 100  
Midvale, UT 84047

Date: 11/ 8/95

Group #: 4814  
Lab #: 95-U035463  
Project: HORSE CANYON  
Sample Desc: H-18  
Date Sampled: 10/18/95  
Date Submitted: 10/19/95

INCORPORATED  
MAY 18 2007  
Div. of Oil, Gas & Mining

### CERTIFICATE OF ANALYSIS

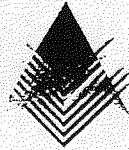
PARAMETER	RESULT	MDL	DATE ANALYZED	METHOD	ANALYST
INORGANIC PARAMETERS					
Bicarbonate as HCO <sub>3</sub> , mg/L	640	1	10/23/95 10:00	SM 2320B	TM
Carbonate as CO <sub>3</sub> , mg/L	< 1	1	10/23/95 10:00	SM 2320B	TM
Ammonia-Nitrogen, mg/L	< 0.4	0.4	10/27/95 12:40	SM 4500G/F	DI
Chloride, mg/L	23	1	11/ 4/95 10:00	EPA 325.3	TM
Fluoride, mg/L	0.2	0.2	10/31/95 11:40	EPA 340.2	DI
Hardness, EDTA Titration, mg/L	426	10	10/25/95 9:30	EPA 130.2	TM
Mercury, as Hg, mg/L	0.0003	0.0002	11/ 6/95 11:45	EPA 245.1	TH
Nitrate, Nitrogen, mg/L	< 0.08	0.08	10/28/95 14:45	EPA 353.1	TH
Nitrite, Nitrogen, mg/L	0.011	0.005	10/20/95 9:30	EPA 354.1	KA
Phosphorus, Total, mg/L	0.02	0.01	10/25/95 15:00	SM 4500-P	KA
Sulfate, mg/L	292	20	11/ 2/95 11:30	EPA 375.4	TM
Sulfide, mg/L	0.10	0.1	10/23/95 17:00	EPA 376.1	KA
Total Dissolved Solids, mg/L	934	10	10/23/95 15:30	EPA 160.1	MA
Aluminum (T), as Al, mg/L	< 0.02	0.02	10/30/95 15:27	EPA 200.7	LH
Arsenic (T), as As, mg/L	< 0.02	0.02	10/30/95 15:27	EPA 200.7	LH
Barium (T), as Ba, mg/L	0.09	0.02	10/30/95 15:27	EPA 200.7	LH
Boron (T), as B, mg/L	0.3	0.1	10/30/95 15:27	EPA 200.7	LH
Cadmium (T), as Cd, mg/L	< 0.005	0.005	10/30/95 15:27	EPA 200.7	LH
Calcium (T), as Ca, mg/L	59.2	0.2	10/30/95 15:27	EPA 200.7	LH
Chromium(T), as Cr, mg/L	< 0.005	0.005	10/30/95 15:27	EPA 200.7	LH
Copper (T), as Cu, mg/L	< 0.01	0.01	10/30/95 15:27	EPA 200.7	LH
Iron (T), as Fe, mg/L	< 0.04	0.04	10/30/95 15:27	EPA 200.7	LH
Lead (T), as Pb, mg/L	< 0.01	0.01	10/30/95 15:27	EPA 200.7	LH

Approved By: \_\_\_\_\_

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To: EARTH FAX ENGINEERING  
7324 So. 1300 E. STE 100  
Midvale, UT 84047

Date: 11/ 8/95

Group #: 4814  
Lab #: 95-U035463  
Project: HORSE CANYON  
Sample Desc: H-18  
Date Sampled: 10/18/95  
Date Submitted: 10/19/95

INCORPORATED  
MAY 18 2007  
Div. of Oil, Gas & Mining

### CERTIFICATE OF ANALYSIS

PARAMETER	RESULT	MDL	DATE ANALYZED	METHOD	ANALYST
INORGANIC PARAMETERS					
Magnesium (T), as Mg, mg/L	71.3	0.1	10/30/95 15:27	EPA 200.7	LH
Manganese (T), as Mn, mg/L	< 0.01	0.01	10/30/95 15:27	EPA 200.7	LH
Molybdenum (T), as Mo, mg/L	0.02	0.01	10/30/95 15:27	EPA 200.7	LH
Nickel (T), as Ni, mg/L	< 0.01	0.01	10/30/95 15:27	EPA 200.7	LH
Potassium (T), as K, mg/L	3.1	0.1	10/30/95 15:27	EPA 200.7	LH
Selenium (T), as Se, mg/L	< 0.04	0.04	10/30/95 15:27	EPA 200.7	LH
Sodium (T), as Na, mg/L	186	0.2	10/30/95 15:27	EPA 200.7	LH
Zinc (T), as Zn, mg/L	< 0.02	0.02	10/30/95 15:27	EPA 200.7	LH

NOTE: Nitrite was run past holding time due to late arrival and size of project.

Approved By: \_\_\_\_\_

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